ANTIQUE ELECTRONIC SUPPLY

6221 S. MAPLE AVE. • TEMPE, AZ 85283 • (602) 820-5411 • FAX (602) 820-4643 or (800) 706-6789

1995 Catalog

- TUBES
- PARTS
- BOOKS
- SUPPLIES

10,000 SQ. FT. OFFICE AND WAREHOUSE

Pictured from left to right are: Greg Cravener (Purchasing and Technical Services), Noreen Cravener (Sales and Operations), Joe Campanella (President) and George H. Fathauer (founder and consultant).

OUR SERVICE: Orders are normally shipped within 24 hours by U.P.S. Next day air or 2nd day air available upon request. All catalog items are stocked for immediate shipment. Occasionally we have to back order an item, in which case you will be notified, and the item will be shipped as soon as possible.

OUR GUARANTEE: All items in our catalog are 100% guaranteed to meet your satisfaction or they may be returned within 10 days for exchange or credit. Tubes are guaranteed for 90 days, except for breakage or when not operated within manufacturers specified ratings.

OUR PRICING/QUALITY: We believe we provide competitive and fair pricing while maintaining the quality and integrity of the product. We feel that we can save you money by providing you with a reliable and timely source for your electronic component needs.

ORDERING INFORMATION: An order form is provided following page 18. Telephone orders will be accepted from 7:00 a.m. to 5:00 p.m. Mountain Standard Time Monday through Friday and 8:00 a.m. to 1:00 p.m. Saturday. FAX orders may be placed anytime. See back of order form for additional information.

ON THE COVER: The first commercially produced vacuum tube was the DeForest "single-wing" audion (lighted reproduction), circa 1907. The evolutionary path of the tube over the next 70 years is suggested by an assortment of tube boxes from various manufacturers.

OVER 300,000 TUBES IN STOCK

TUBES — RECEIVING • INDUSTRIAL • TRANSMITTING

WE HAVE OVER 3000 TUBE TYPES WHICH ARE NEW AND STOCKED FOR IMMEDIATE SHIPMENT. Brands include GE, RCA, Sylvania, Amperex, etc. plus several types in the popular Sovtek (Russia) brand shown as (SOVT) following the type.

MANY TUBE TYPES ARE AVAILABLE IN DIFFERENT ENVELOPE STYLES. FOR EXAMPLE, 6A8 IS METAL, 6A8G IS ST SHAPE LARGE GLASS AND 6A8GT IS SMALL GLASS. SEE PAGE 9 FOR THE TUBE SHAPE ILLUSTRATIONS. THESE ARE EQUIVALENT ELECTRICALLY. UNLESS YOUR ORDER SPECIFIES "NO SUBSTITUTION" AN ALTERNATE ENVELOPE STYLE MAY BE SUPPLIED.

If you don't find your tube type listed, please contact us. Many types have equivalent numbers which we can cross reference. European tubes and tube types starting with letters follow the numerical listing.

MATCHED PAIRS & SPECIAL SELECTION – Audio and other output tubes can be supplied in matched multiples at a charge of $2.00 per tube. Please specify matching on your order. Specific brand or construction can be supplied for a nominal fee.

PRICES SHOWN ARE FOR CURRENT STOCK AND ARE SUBJECT TO CHANGE WITHOUT NOTICE. Because most tube types are no longer manufactured, quantities available are limited. Price and availability of tubes with "CALL" under **PRICE** will be quoted at the time of inquiry. Special quantity pricing is available on some types. All new tubes are guaranteed to meet manufacturers specifications. See page 9 for antique and used tubes.

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
01A(ST)	$ 19.00	1B21A	$ 10.00	1G6G	$ 3.60	1SB6GT	$ 4.50	2C53	$ 35.00	3A2	$ 2.20
0A2	3.00	1B22	4.00	1G6GT/G	3.60	1SX2	6.00	2CN3A/B	2.75	3A3/A/C/3AW3	4.85
0A2WA	3.90	1B23	20.00	1H2	3.00	1T2/U37	6.00	2CW4/2DS4	5.20	3A4	3.60
0A3/VR75	4.50	1B27	9.00	1H4G	3.45	1T4/DF91	3.00	2CY5	1.90	3A5/DCC90	3.00
0A4G	15.00	1B29	10.00	1H5GT/G	2.35	1T5GT	2.10	2D21/PL21	3.00	3A8GT	2.20
0A5	9.00	1B35A/6038	30.00	1H6G	2.50	1T6	2.25	2DF4	3.50	3AF4A/3DZ4	2.85
0B2	3.90	1B56	20.00	1H6GT	2.50	1U4	3.65	2DS4	5.20	3AL5	1.80
0B2WA	3.90	1B88	9.00	1J3/1K3A	5.80	1U5	3.00	2DV4	9.65	3AQP1	15.00
0B3/VR90	2.90	1BC2A	5.20	1J5G	3.75	1U6	6.60	2DZ4	2.60	3AT2B	5.45
0C2	4.90	1BG2/DY51	2.10	1J6G	6.50	1V/6Z3	4.20	2E5	9.10	3AT6	2.00
0C3/A/VR105	4.50	1BH2A	2.90	1J6GT	6.50	1V2	2.65	2E22	37.50	3AU6	2.30
0D3/A/VR150	4.50	1BK2/1RK41	3.10	1K3A	5.80	1V5	3.55	2E24	5.00	3AV6	1.50
0E3/85A1	7.45	1BQ2/DY802	3.15	1K4	1.50	1V6	3.55	2E25	4.00	3AW2A	4.15
0G3/85A2	3.50	1BX2/1X2/B/C	2.75	1K5G	1.50	1W4	6.00	2E26/6893	6.00	3AW3	4.85
0Y4	5.00	1BY2A	3.00	1K7G	1.50	1W5	5.00	2E30	8.60	3B/240M	5.00
0Z4/A	3.40	1C4	3.00	1L4/DF92	3.00	1X2/B/C	2.75	2E31	5.00	3B2	4.85
1A3	2.00	1C5GT	2.60	1L5G	1.50	1Z2	6.00	2E32	7.00	3B4/DL98	2.00
1A4P	3.25	1C6	3.60	1L6	10.20	2-01C	60.00	2E36	3.00	3B5GT	3.00
1A4T	3.50	1C7G	3.20	1LA4	4.50	2A3	CALL	2E42	7.00	3B7/1291	2.90
1A5G	3.75	1C8	4.00	1LA6	4.50	2A3(CHINA)	19.50	2EA5/2EV5	3.00	3B22/EL1C	20.00
1A5GT	2.50	1C21	15.00	1LB4	4.85	2A3W	CALL	2EG4	7.50	3B23	10.00
1A6	3.50	1CP1	16.05	1LC5	1.80	2A4G	3.90	2EN5	2.60	3B24	16.00
1A7GT	2.80	1D1	5.00	1LC6	2.40	2A5	12.35	2ER5	1.70	3B26	15.00
1AB5	2.85	1D4	7.00	1LD5	2.80	2A6	4.50	2EV5	3.00	3B28	29.00
1AB6/DK96	3.85	1D5G	3.75	1LE3/1LF3	4.20	2A7	5.50	2FH5	1.60	3BA6	1.55
1AC5	3.60	1D5GP	3.75	1LF3	4.20	2AC15	20.00	2FQ5A/2GK5	5.05	3BC5/3CE5	1.75
1AC6/DK92	4.50	1D5GT	3.75	1LG5	3.50	2AF4	2.50	2FS5	4.20	3BE6	1.50
1AD2/1BY2A	3.00	1D7G	2.75	1LH4	2.95	2AH2	5.00	2FY5	3.50	3BF2	4.50
1AD4	4.20	1D8GT	2.75	1LN5	3.50	2AS2/A	4.85	2G21	16.00	3BH2	6.00
1AD5	3.85	1D21/SN4	30.00	1M3/DM70	4.70	2AS15A	26.00	2G22	16.00	3BL2A	5.40
1AE4	4.80	1DG3A	6.65	1N2A	2.75	2AV2/2BA2	4.30	2GK5	5.05	3BM2	2.65
1AF4/1AJ4	4.20	1DK1	3.00	1N3/DM71	4.70	2AZ2	3.00	2GU5	4.15	3BN2A	2.85
1AF5/1AH5	3.85	1DK27	1.50	1N5GT/1P5GT	3.45	2B3	7.00	2GW5	3.00	3BN4A	1.95
1AG4	3.90	1DK29	2.05	1N6G	3.50	2B4	6.00	2HA5/2HM5	3.75	3BN6	3.20
1AG5	3.60	1DN5	3.00	1P5GT	3.45	2B6	12.00	2HK5/2HQ5	3.50	3BP1	15.00
1AH4	3.60	1DP1	CALL	1P21	50.00	2B7	3.50	2HM5	3.75	3BS2B	5.45
1AH5	3.85	1DP11	CALL	1P28	35.00	2BA2	4.30	2HQ5	3.50	3BT2/3BS2B	5.45
1AJ4	4.20	1E4G	5.60	1P32	24.00	2BJ2	5.10	2K25	90.00	3BU8/3GS8	2.75
1AJ5	3.60	1E5G	3.50	1P37	CALL	2BN4A	2.70	2K26	CALL	3BW2	5.45
1AK4	3.60	1E5GP	2.75	1P39	18.00	2BU2	5.35	2K28/707B	26.75	3BY6	1.80
1AK5	3.60	1E5GT	3.00	1P40	18.00	2C21/1642	6.45	2K41	12.00	3BZ6	3.85
1AN5/DF97	2.65	1E7G	2.75	1P41/924	20.00	2C22	8.00	2T4	2.30	3C2	6.00
1AU2	2.75	1E7GT	3.25	1P42	CALL	2C26	5.00	2V2	3.00	3C4/3E5/DL96	4.20
1AU3/1N2A	2.75	1E8	4.50	1Q5GT	1.80	2C34/RK34	4.00	2V3G	3.35	3C6/XXB	1.75
1AX2	2.95	1EP1	CALL	1Q6	4.00	2C36	40.00	2W3	9.00	3C23	39.00
1AY2	8.25	1F4	2.90	1R4/1294	2.30	2C39A	40.00	2X2A/2Y2/879	3.00	3C24/24G	45.00
1B3GT/1G3GTA	4.50	1F5G	2.75	1R5/DK91	2.30	2C40/A	45.00	2Y2	3.00	3C30	CALL
1B4	2.65	1F6	2.75	1RK41	3.10	2C42	35.00	2Z2	9.00	3C45/6130	55.00
1B4P	3.25	1F7G	4.50	1S2/A/DY87	3.35	2C43	21.40	3-200A3/592	CALL	3CA3	3.60
1B4T	3.00	1G3GTA	4.50	1S4	1.40	2C50	5.35	3-400Z/8163	CALL	3CB6/3CF6	2.55
1B5	3.90	1G4G	4.00	1S5/DAF91	1.60	2C51	5.35	3-500Z(CHIN)	CALL	3CE5	1.75
1B7G	3.50	1G4GT	4.00	1S6	2.95	2C51W	5.35	3-500Z(US)	CALL	3CF6	2.55
1B7GT	2.65	1G5G	3.85	1SA6GT	4.50	2C52	CALL	3-1000Z	CALL	3CN3B	4.30

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
3CS6	$ 1.85	4BS8/4BZ8	$ 3.55	5AN8	$ 2.05	5U8	$ 3.30	6AK10	$ 5.50	6BD6	$ 2.40
3CU3A	6.85	4BU8	3.15	5AQ4/GZ32	CALL	5U9/LCF201	4.15	6AL3/EY88	4.70	6BD7	4.45
3CV3A	5.00	4BX8	2.50	5AQ5	5.00	5V3A	4.20	6AL5/6EB5	2.50	6BD7A/EBC81	5.25
3CX3/3DA3	6.00	4BZ6/4JH6	4.00	5AR4(JAPAN)	16.05	5V4G	8.10	6AL5W	2.50	6BD11	4.70
3CX100A5	40.00	4BZ7	3.30	5AR4(SOVT)	6.90	5V4GA	7.50	6AL7GT	3.50	6BE3/6BZ3	4.65
3CX1500A7	CALL	4BZ8	3.55	5AR4=GZ30	8.35	5V6GT	2.40	6AL11	5.90	6BE6/EK90	3.25
3CY3/3DB3	3.00	4C22	40.00	5AR4=GZ34	CALL	5W4	4.70	6AM4	3.35	6BE6W	3.50
3CY5	2.05	4C35A	90.00	5AS4A/5U4GB	10.60	5W4G	CALL	6AM5/EL91	9.85	6BE7/EQ80	3.00
3CZ3A	6.00	4CB6/4DE6	3.70	5AS8	1.90	5W4GT	4.40	6AM6/EF91	5.00	6BF5	3.80
3D6/1299	3.60	4CE5	1.45	5AT4A	CALL	5X4G	3.60	6AM8A	5.60	6BF6/6BU6	2.25
3D21A	40.00	4CS6	3.00	5AT8	1.80	5X8	1.95	6AN4	4.70	6BF7	3.00
3D21WB	40.00	4CS250R	CALL	5AU4/5V3A	4.20	5X9/LCF200	5.00	6AN5	3.70	6BF8	3.75
3D22	CALL	4CX250B/7203	95.00	5AV8	2.65	5Y3G	CALL	6AN6	2.65	6BF11	5.40
3DA3	6.00	4CX250B(CHINA)	70.00	5AW4	3.00	5Y3GT	4.40	6AN7A/ECH80	9.00	6BG6G/GA	7.25
3DB3/3DJ3	3.00	4CX250F/7204	70.00	5AX4GT	5.00	5Y3WGT	6.50	6AN8A	5.05	6BH3/A	1.85
3DB3	3.00	4CX250FG	70.00	5AZ4	3.70	5Y3WGTB	8.10	6AQ4/EC91	9.85	6BH6/E90F	3.90
3DC3	9.00	4CX250K/8245	40.00	5B8	2.35	5Y4G	4.10	6AQ5A/6HG5	3.80	6BH8	5.45
3DF3/A	6.35	4CX250R/7580	CALL	5BC3/A	4.85	5Y4GA	3.80	6AQ5W	4.85	6BH11	5.65
3DG4	6.00	4CX300A/8167	CALL	5BE8	3.75	5Y4GT	3.80	6AQ6	3.05	6BJ3	2.05
3DH3	4.90	4CX350A/8321	CALL	5BK7A	1.80	5Z3	5.50	6AQ7GT	2.55	6BJ5	9.00
3DHH12	3.00	4CX350F/8322	CALL	5BQ7A/5BZ7	2.75	5Z4	4.75	6AQ8/ECC85	6.20	6BJ6/E99F	3.00
3DHH13	3.30	4CX1000A	CALL	5BR8	4.45	5Z4G	6.00	6AR5	7.85	6BJ7	1.95
3DJ3	3.00	4CX1500A	CALL	5BT8	1.65	5Z4GT	4.45	6AR6	7.80	6BJ8	4.75
3DK6	2.65	4CX1500B	CALL	5BW8	3.40	6A3	CALL	6AR6WA	8.60	6BK4/A/B	5.95
3DR3	12.55	4CY5	1.65	5BZ7	2.75	6A4	7.70	6AR8	5.40	6BK4C/6EL4A	12.85
3DS3	11.40	4D21	CALL	5C21	45.00	6A5	CALL	6AR11	4.30	6BK5	1.75
3DT6A	2.80	4D32	95.00	5C22/6279	CALL	6A5G	CALL	6AS5	2.90	6BK6	2.40
3DZ4	2.85	4DE6	3.70	5CG8	4.45	6A6	6.00	6AS6	4.25	6BK7/A/B	5.25
3E5	4.20	4DK6	3.70	5CL8A/5BR8	4.45	6A7	7.00	6AS6W	4.25	6BK8/EF83	3.25
3E6	3.60	4DL4	4.00	5CM8	1.75	6A8	4.85	6AS7G/6520	8.60	6BK11	8.20
3E29	14.00	4DT6A	3.85	5CQ8	1.85	6A8G	5.95	6AS7GA	6.00	6BL4	2.50
3EA5	4.00	4E27	48.50	5CU4	9.00	6A8GT	4.50	6AS8	3.00	6BL6	CALL
3EH7/XF183	2.80	4EH7/LF183	3.70	5CZ5	3.70	6AB4/EC92	3.50	6AS11	4.80	6BL7GTA	6.50
3EJ7/XF184	4.00	4EJ7/LF184	4.75	5D21	CALL	6AB5/6N5	9.65	6AT6/6BK6	2.40	6BL8/6LN8	4.20
3ER5/YC95	3.25	4ES8	1.95	5D22	CALL	6AB6	12.00	6AT8/A	4.15	6BM6	95.00
3FH5	4.00	4EW6/4GM6	2.50	5DH8	3.20	6AB7/1853	4.50	6AU4GTA	5.05	6BM8/ECL82	5.00
3FQ5/3GK5	3.85	4GJ7/4GX7	5.45	5DJ4	6.50	6AB8/ECL80	1.95	6AU5GT	5.35	6BN4A	4.30
3FS5	3.75	4GK5	4.00	5EA8/5GH8A	5.70	6AC5G	CALL	6AU6A/EF94	4.00	6BN5/EL85	4.20
3GK5	3.85	4GM6	2.50	5EH8	2.00	6AC5GT	8.10	6AU6WA	4.00	6BN6/6KS6	5.05
3GS8	2.75	4GS7	5.00	5ES8	2.75	6AC7/1852	4.10	6AU7/A	4.80	6BN7	6.00
3GW5	3.00	4GX7	5.45	5EU8	1.85	6AC7WA	6.50	6AU8/A/6BH8	5.45	6BN8	7.35
3HA5/3HM5	3.00	4GZ5	4.00	5EW6/5GM6	3.70	6AC10	6.10	6AV5GA	4.90	6BN11	8.00
3HK5	3.00	4HA5/4HM5	3.85	5FG7	3.25	6AD4	6.10	6AV5GT	4.90	6BQ5/EL84	6.70
3HM5	3.00	4HA7/4HC7	3.75	5FV8	4.45	6AD6G/6AF6GT	11.50	6AV6/EBC91	2.90	6BQ5(SOVT)	3.50
3HQ5	5.90	4HC7	3.75	5GH8A	5.70	6AD7G	5.50	6AV11	3.30	6BQ6GTB/6CU6	4.10
3HS8	4.35	4HK5	2.00	5GJ7/LCF801	5.45	6AD8/6DC8	4.15	6AW6	4.00	6BQ7A	5.35
3JC6A	6.20	4HM5	3.85	5GM6	3.70	6AD10	9.00	6AW8A	4.45	6BR3/6RK19	2.00
3KP1(CRT)	19.30	4HM6/4JC6A	5.20	5GS7	6.30	6AE5G/6AF5G	7.45	6AX3	3.10	6BR5/EM80	5.25
3KT6	4.00	4HQ5	4.00	5GX6/5HZ6	3.40	6AE5GT	6.95	6AX4GTB	3.85	6BR7	19.00
3LF4(BALL)	2.95	4HR8/PF86	3.00	5GX7	3.75	6AE6G	4.45	6AX5GT	4.95	6BR8A/6FV8	4.75
3MP26	9.00	4HS8/4KF8	2.25	5HA7	2.15	6AE7GT	CALL	6AX6G	9.00	6BS3A	5.00
3Q4	4.85	4HT6	3.85	5HB7	1.95	6AE8	4.50	6AX7	6.00	6BS7	8.00
3Q5GT	3.20	4JC6A/4JD6	4.80	5HC7	1.80	6AF3	3.00	6AX8	5.00	6BS8	5.35
3S4/DL92	1.90	4JC6A	5.20	5HG6	3.40	6AF4A/6DZ4	4.75	6AY3B	3.90	6BT4/EZ40	5.50
3TF4A	9.00	4JD6	5.20	5HG8	3.00	6AF5G	7.45	6AY11	3.25	6BT8	4.80
3TF7	32.10	4JH6	4.00	5HZ6	3.40	6AF6GT	11.50	6AZ5	4.30	6BU6	2.25
3V4/DL94	6.70	4KE8	4.00	5J6/5MHH3	1.75	6AF9	6.40	6AZ8	8.60	6BU8/6KF8	5.25
4-65A/8165	75.00	4KF8	2.25	5JK6	3.00	6AF11	5.75	6B4G	CALL	6BV7	9.00
4-125A/4D21	CALL	4KN8/4RHH8	3.50	5JL6	2.10	6AG5	2.90	6B5	16.00	6BV8	4.95
4-250A/5D22	CALL	4KT6	5.45	5JW8	3.45	6AG5WA	5.95	6B6G	5.50	6BV11	5.80
4-400A/8438	CALL	4LJ8	6.45	5KD8	5.00	6AG6G/EL33	14.00	6B7	4.50	6BW3	4.05
4-400C/6775	CALL	4LU6	3.50	5KE8	6.45	6AG7/6AK7	5.95	6B8	3.55	6BW4	3.60
4-500A	CALL	4MK8	4.05	5KZ8	4.85	6AG9	8.95	6B8G	3.55	6BW6	9.00
4A6/G	CALL	4MP12	7.00	5LJ8	6.15	6AG11	3.50	6B8GT	3.55	6BW7	4.70
4AU6/4BA6	3.50	4MP26	9.00	5MB8	5.45	6AH4GT	3.50	6B10	5.75	6BW8	2.15
4AV6	3.35	4PR60A	CALL	5MHH3	1.75	6AH6	3.00	6BA3	2.75	6BW11	5.80
4B24/EL3C	65.00	4PR65A/8187	CALL	5MK9	7.40	6AH6WA	3.00	6BA4	20.00	6BX4	6.50
4B25	15.00	4PR400A	CALL	5R4GA	4.95	6AH7GT	5.35	6BA5	6.00	6BX6/EF80	2.55
4B26/EL6Y	CALL	4RHH2	2.75	5R4GB	5.25	6AH9	6.55	6BA6/EF93	3.50	6BX7GT	7.00
4B31	75.00	4RHH8	3.50	5R4GY/A/B	5.25	6AJ4	3.00	6BA6W	3.50	6BY5G	2.00
4B32	20.00	4X150A/7034	55.00	5R4WGA/B/Y	5.25	6AJ5	2.65	6BA7	7.15	6BY5GA	1.85
4B368	5.00	4X150D/7035	65.00	5RDDH1	4.00	6AJ6	3.00	6BA8/A	5.65	6BY6	3.90
4BA6	3.50	4X150G	55.00	5RK16	2.40	6AJ8/ECH81	4.75	6BA11	4.90	6BY7/EF85	3.00
4BC5/4CE5	1.45	4X150R	40.00	5T4	6.50	6AK4	5.00	6BC4	6.00	6BY8	2.85
4BC8/4RHH2	2.75	4X250B	60.00	5T8	1.75	6AK5/EF95	3.00	6BC5/6CE5	3.45	6BY11	2.80
4BE6	1.75	4X500A	CALL	5U4G	12.35	6AK5W	3.00	6BC7	3.55	6BZ3	4.65
4BL8/XCF80	2.90	5-500A	CALL	5U4G(SOVT)	4.95	6AK6	3.45	6BC8/6BQ7A	5.35	6BZ6/6JH6	4.45
4BN6	2.85	5A6	4.35	5U4GB	10.60	6AK7	5.95	6BD4/A	2.75	6BZ7	5.35
4BQ7A/4BZ7	3.30	5AM8	3.75	5U4WG	16.65	6AK8/EABC80	4.70	6BD5GT	2.55	6BZ8/6RHH2	4.90

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
6C4/EC90	$ 4.00	6D8G	$ 4.20	6ES8/ECC189	$ 5.95	6GU5	$ 3.00	6JG5	$ 3.30	6LF6/6MH6	CALL
6C4WA	4.00	6D10	4.70	6ET6/EF98	3.10	6GU7	4.75	6JG6A	32.10	6LF8	6.00
6C5	2.90	6DA4/A/6DM4	1.80	6ET7	2.85	6GV5	5.00	6JH5	10.40	6LH6A/6LJ6	8.75
6C5G	6.25	6DA5/EM81	4.90	6EU7	14.45	6GV7/ECF805	12.00	6JH6	4.45	6LJ6	8.75
6C5GT	2.90	6DA6/EF89	7.25	6EU8	2.45	6GV8/ECL85	3.85	6JH8	6.50	6LJ8	6.30
6C6	2.75	6DB5	1.80	6EV5	5.90	6GW6	6.15	6JK5	8.65	6LM8	6.85
6C7	3.90	6DB6	5.00	6EV7	3.50	6GW8/ECL86	6.20	6JK6/6JL6	9.65	6LN8	4.20
6C8G	2.35	6DC6	6.10	6EW6	5.05	6GX6/6GY6	4.00	6JK8	3.45	6LQ6	CALL
6C9	9.10	6DC8/EBF89	4.15	6EW7	6.00	6GX7	4.40	6JL6	9.65	6LQ8	4.95
6C10	11.85	6DE4	3.50	6EX6	5.00	6GX8	8.15	6JL8	4.50	6LR6	25.00
6C33C-B	29.50	6DE6	2.45	6EY5/6EZ5	4.45	6GY5	6.20	6JM6/A	6.50	6LR8	7.05
6CA4/EZ81	4.45	6DE7	5.35	6EY6	3.05	6GY6	4.00	6JN6	5.25	6LT8	4.70
6CA5/6EH5	2.60	6DG6GT/6W6GT	3.30	6EZ5	4.45	6GY8	2.95	6JN8	3.65	6LU6	3.50
6CA7/EL34(US)	22.00	6DHH12	2.75	6EZ8	3.00	6GZ5	3.80	6JQ6	3.00	6LU8	6.80
6CA7(CHINA)	6.90	6DHH13	2.75	6F4	9.00	6H4/GT	9.00	6JR6	26.75	6LW6	22.00
6CA7(EUR)	CALL	6DJ8/ECC88	4.95	6F5/H63	4.20	6H6	2.40	6JS6C	CALL	6LX6	CALL
6CA7(SOVT)	8.90	6DJ8(SOVT)	4.60	6F5G	CALL	6H6G	CALL	6JT6A	23.55	6LX8/LCF802	3.40
6CA7(TESLA)	10.90	6DK3/6DL3	5.50	6F5GT	3.25	6H6GT	2.25	6JT8/6KR8	3.75	6LY8	4.35
6CB5A	5.80	6DK6	3.75	6F6	7.10	6H8G	8.00	6JU6	8.10	6M3	10.00
6CB6A/6CF6	3.80	6DL3	5.50	6F6G	10.70	6HA5/6HM5	5.15	6JU8A	5.05	6M11	7.45
6CD3/6CG3	6.50	6DL4/EC88	5.95	6F6GT	7.10	6HA6/6HB6	4.15	6JV8	3.85	6MA6	9.35
6CD6G/6DN6	5.00	6DL5/EL95	5.50	6F7	4.10	6HB5	12.75	6JW8/ECF802	4.80	6MB8	4.50
6CD6GA/6EX6	5.00	6DM4	1.80	6F8G	3.55	6HB6	4.15	6JX8/ECH84	4.50	6MD8	6.70
6CD7/EM34	40.00	6DN3	5.10	6F17	7.00	6HB7	4.95	6JY8	3.50	6ME6	30.00
6CE3	4.95	6DN6	5.00	6F33	8.00	6HC8	5.00	6JZ6	5.00	6ME8	5.50
6CE5	3.45	6DN7	4.95	6FA7	3.85	6HD5	6.00	6JZ8	6.45	6MF8	11.25
6CF6	3.80	6DQ3/6DT3	9.90	6FC7	3.00	6HD7/6HJ7	2.60	6K4A	2.15	6MG8	4.00
6CG3	6.50	6DQ3A/6DU3	9.90	6FD5	3.00	6HE5/6JB5	6.55	6K5	6.00	6MH6	CALL
6CG7/6FQ7	8.45	6DQ4	4.10	6FD6	3.65	6HF5	14.10	6K5G	CALL	6MHH3	10.00
6CG8/A	4.95	6DQ5	9.75	6FD7	3.90	6HF8	5.25	6K5GT	4.20	6MJ6	CALL
6CH3/6CJ3	4.55	6DQ6A/B/6GW6	6.15	6FE5	3.00	6HG5	3.80	6K6GT	3.85	6MJ8	5.50
6CH6/EL821	15.00	6DR4	3.40	6FG5	3.50	6HG8/ECF86	4.00	6K7	4.20	6MK8	5.30
6CH8	3.80	6DR7	5.55	6FG6/EM84	5.50	6HJ5	5.20	6K7G	4.50	6ML8	9.25
6CJ3/6DW4B	4.55	6DR8/EBF83	3.00	6FG7	5.00	6HJ7	2.60	6K7GT	4.20	6MN8	6.40
6CJ3	4.55	6DS4	11.25	6FH5	4.10	6HJ8	2.60	6K8	4.20	6MP17	2.75
6CJ5/EF41	5.25	6DS5	2.45	6FH8	11.00	6HK5	4.40	6K8G	4.20	6MQ8	6.00
6CJ6/EL81	15.00	6DS8/ECH83	3.90	6FJ7	3.60	6HL8	4.50	6K8GT	4.20	6MU8	8.60
6CK3/6CL3	4.20	6DT3	9.90	6FM7	4.60	6HM5	5.15	6K11/6Q11	8.00	6MV8	6.95
6CK4	5.20	6DT4	3.50	6FM8	2.90	6HM6/6HT6	2.35	6KA8	5.55	6N3	3.50
6CK5/EL41	8.40	6DT5	2.45	6FQ5A/6GK5	5.95	6HQ5	5.15	6KD6	30.00	6N4	4.60
6CK6/EL83	11.40	6DT6A	3.45	6FQ7	8.45	6HR5	2.50	6KD8/6U8A	5.00	6N5	9.65
6CL3	4.20	6DT8	2.95	6FS5	3.90	6HR6	5.00	6KE6	3.00	6N6	CALL
6CL5	6.00	6DU3	9.90	6FV6	2.95	6HS5/6HV5A	9.95	6KE8	7.40	6N6G	20.40
6CL6	5.05	6DV4	7.35	6FV8	4.75	6HS6	6.50	6KF8	5.25	6N7	5.60
6CL8A	5.05	6DW4B	4.55	6FW5	2.75	6HS8	5.25	6KG6A/EL509	CALL	6N7G	7.20
6CM3/6DN3	5.10	6DW5	5.00	6FW8	4.95	6HT6	2.35	6KH8/ECLL800	43.00	6N7GT	6.70
6CM4/EC86	4.35	6DX8/ECL84	4.70	6FY5/EC97	2.35	6HU6/EM87	2.80	6KL8	1.50	6N8/EBF80	6.00
6CM5/EL36	9.00	6DY4	4.00	6FY7	4.00	6HU8/ELL80	30.00	6KM6	9.95	6P5G	12.85
6CM6	4.30	6DY5	5.00	6G5/6U5	CALL	6HV5A	9.95	6KM8	2.55	6P5GT	12.85
6CM7	3.65	6DZ4	4.75	6G6G	4.50	6HW8	4.50	6KN6	7.00	6P7	CALL
6CM8	4.00	6DZ7	4.40	6G8G	2.50	6HZ5/6JD5	5.95	6KN8/6RHH8	15.00	6P7G	8.00
6CN6/EL38	15.00	6E5	12.35	6G11	4.90	6HZ6	3.60	6KR8	3.75	6Q4/EC80	25.00
6CN7	3.45	6E6	5.95	6GA7	9.00	6HZ8	2.90	6KS6	5.05	6Q5G	6.00
6CQ4/6DE4	3.50	6E7	6.50	6GB3A	5.60	6J4	2.90	6KT6	4.65	6Q7	3.50
6CQ6/EF92	4.00	6E8G	4.50	6GB5/A/EL500	6.45	6J5	4.20	6KT8	6.55	6Q7G	7.00
6CQ8	3.90	6EA4/6EH4A	5.85	6GB6	7.50	6J5G	11.85	6KU8	3.00	6Q7GT	3.50
6CR6	1.80	6EA5/6EV5	5.90	6GB7	6.50	6J5GT	4.50	6KV6A	CALL	6Q11	8.00
6CS6/EH90	4.25	6EA7/6EM7	6.75	6GC5	3.60	6J6A/ECC91	3.60	6KV8	4.10	6R3/EY81	2.25
6CS7	4.15	6EA8	5.50	6GD7	4.00	6J6WA	3.60	6KX8/ECC808	CALL	6R4	9.00
6CT3	9.00	6EB5	2.50	6GE5	7.95	6J7/EF36	4.05	6KY8A	7.90	6R7	3.60
6CT7/EAF42	4.75	6EB8/6GN8	6.05	6GE8/7734	25.00	6J7G	4.85	6KZ8	4.00	6R7G/OM4	4.20
6CU5	4.20	6EC4A	5.55	6GF5	2.25	6J7GT	3.80	6L4	9.00	6R7GT	4.20
6CU6	4.10	6ED4/ED500	9.00	6GF7A	7.25	6J8G	7.40	6L5G	3.60	6R8	4.60
6CU7/ECH42	6.45	6EF4/6EJ4/A	9.85	6GH8A	3.85	6J9	3.10	6L6	14.45	6RA6	8.60
6CU8	3.55	6EH4A	5.85	6GJ5A	7.35	6J10/6Z10	8.30	6L6G	CALL	6RA9	8.60
6CV7/EBC41	3.70	6EH5	2.60	6GJ7/ECF801	5.20	6J11	3.80	6L6GA	10.20	6RB11	4.00
6CW4/6DS4	11.25	6EH7/EF183	4.45	6GK5	5.95	6JA5	15.55	6L6GB	13.95	6RHH1	6.00
6CW5/EL86	5.00	6EH8	3.15	6GK6	6.50	6JA8	5.20	6L6GC(SOVT)	3.60	6RHH2	4.90
6CW7/ECC84	3.60	6EJ4/A	9.85	6GK17	3.85	6JB5	6.55	6L6GC(US)	16.00	6RHH8	15.00
6CX8/6JA8	5.20	6EJ7/EF184	5.10	6GL7	6.75	6JB6A	20.40	6L6GCR(CHINA)	5.95	6RK19	2.00
6CY5	5.90	6EL4A	12.85	6GM5	CALL	6JC5	6.55	6L6WGB	17.50	6RP10	7.00
6CY7	2.90	6EM5	4.45	6GM6	5.85	6JC6A	5.55	6L7	3.95	6RP15	3.55
6CZ5	6.40	6EM7	6.75	6GM8/ECC86	3.25	6JC8	3.00	6L7G	4.25	6RP22	4.00
6D2	3.00	6EN4	9.05	6GN8	6.05	6JD5	5.95	6LB6	CALL	6RR8C	9.00
6D4	5.50	6EQ7	3.05	6GQ7	1.80	6JD6	5.25	6LB8/6KR8	3.75	6S2/A/EY87	2.65
6D5	25.00	6ER5/EC95	2.30	6GR7	6.00	6JE6C/6LQ6	CALL	6LB8	3.75	6S4A	4.20
6D6	3.70	6ES5	1.50	6GS7	4.85	6JE8	3.15	6LC8	2.95	6S7	3.25
6D7	4.20	6ES6/6FD6	3.65	6GT5/A	13.95	6JF6	9.95	6LE8	6.00	6S7G	3.25

TUBE TYPE	PRICE
6S8GT	$ 3.00
6SA7	3.25
6SA7GT	3.00
6SB7/Y	3.60
6SC7	4.70
6SC7GT	4.70
6SD7	4.95
6SD7GT	4.60
6SF5	3.25
6SF5GT	3.25
6SF7	3.90
6SG7	4.35
6SG7GT	4.20
6SH7	2.95
6SH7GT	3.15
6SJ7	3.50
6SJ7GT	3.75
6SK7	3.75
6SK7GT	3.50
6SK7WA	4.00
6SL7GT	5.95
6SL7GT(SOVT)	3.25
6SN7GT/B	5.25
6SN7GT(SOVT)	2.90
6SQ7	3.75
6SQ7GT	3.75
6SR7	4.20
6SR7GT	4.20
6SS7	3.60
6SS7GT	3.85
6ST7	3.00
6SU7GTY/6188	6.00
6SV7	3.00
6SZ7	3.30
6T4	1.80
6T6	15.00
6T7G	5.50
6T8/A	2.90
6T9	2.90
6T10	6.70
6U3/EY80	3.50
6U4GT	3.45
6U5	CALL
6U6GT	3.45
6U7G	3.20
6U8A	5.00
6U9/ECF201	3.00
6U10	5.10
6V3/A	2.30
6V4/EZ80	4.95
6V5GT	9.00
6V6	7.00
6V6G	10.20
6V6GT	5.95
6V6GT(SOVT)	3.90
6V7G	3.00
6V8	3.00
6V9	3.00
6W2	6.00
6W4GT	3.15
6W5/G	5.50
6W6GT	3.30
6W7G	2.70
6X2/EY51	4.50
6X4/EZ90	3.85
6X4WA	4.50
6X5	4.85
6X5GT/EZ35	3.85
6X8/A	4.65
6X9/ECF200	5.30
6Y5	5.00
6Y6G	3.25
6Y6GA	3.80
6Y6GT	3.00
6Y7G	4.85
6Y9/EFL200	3.90
6Z3	4.20
6Z4/84	6.50
6Z5/12Z5	$ 4.80
6Z7G	4.80
6Z10	8.30
6ZY5G	3.60
7A4/XXL	4.50
7A5	4.00
7A6	3.60
7A7	3.15
7A8	3.15
7AB7/1204	6.00
7AD7	3.60
7AF7	9.60
7AG7/7AH7	3.75
7AH7	3.75
7AJ7/1273	3.00
7AK7	3.90
7AN7/PCC84	4.00
7AU7	1.70
7B4	3.30
7B5	2.80
7B6	3.55
7B7	7.50
7B8	2.80
7C4/1203A	4.05
7C5	7.20
7C6	5.95
7C7	4.05
7D4	4.50
7D8	5.00
7DJ8/PCC88	4.45
7E5/1201	3.50
7E6	3.30
7E7	2.65
7EK7/7FC7	3.00
7ES8	3.25
7EY6	3.30
7F7	7.00
7F8	7.00
7FC7	3.00
7G7/1232	4.05
7G8	4.05
7GS7	5.45
7GV7	5.00
7H7	3.60
7HG8/8HG8	4.30
7J7/7S7	3.40
7K7	5.45
7KY6/9KX6	6.80
7L7	3.40
7MP18	3.00
7N7	7.00
7Q7	3.55
7R7	3.30
7S7	3.40
7T7	4.30
7V7/1231	4.30
7W7	3.30
7X6	3.30
7X7/XXFM	3.30
7Y4	2.50
7Z4	3.00
8A8/9A8/9U8	2.10
8AC9	3.00
8AC10	5.70
8AL9	7.00
8AR11	8.00
8AU8A/8BA8A	1.80
8AV11	5.00
8AW8A	5.55
8B8	6.50
8B10	5.00
8BA8A	1.80
8BA11	7.50
8BH8	6.00
8BM11	5.00
8BN8	2.40
8BN11	5.50
8BQ5	1.90
8BQ11	$ 6.45
8BU11	8.60
8CB11	6.00
8CG7/8FQ7	4.15
8CM7	1.50
8CN7	3.00
8CS7	3.40
8CW5/A/XL86	3.90
8CX8	1.95
8CY7	2.50
8D2/VR108	7.00
8EB8/8GN8	3.40
8EM5	2.90
8ET7	3.90
8FQ7	4.15
8GJ7/PCF801	4.60
8GN8	3.40
8GU7	4.00
8HG8/PCF86	4.30
8HG8	4.30
8JU8A	3.35
8JV8	5.30
8KA8	3.45
8KR8	5.30
8LC8	2.75
8LS6	4.45
8LT8	4.65
8SN7GTB	3.00
8U9	4.00
8X9	4.00
9A8	2.10
9AH9	8.30
9AK8/PABC80	2.60
9AK10	3.00
9AM10	6.00
9AQ8/PCC85	4.50
9AU7	1.65
9BJ11	4.70
9BR7	1.80
9CL8	2.25
9EA8	1.80
9EF6	4.00
9GH8A	4.70
9GV8	2.00
9JW8/PCF802	4.45
9KC6	1.80
9KX6	6.80
9KZ8	2.00
9LA6	1.75
9MHH3	7.50
9ML8	9.00
9MN8	8.00
9MP12	2.00
9RA6	3.50
9RAL1	4.50
9RHR2	2.00
9U8	2.10
9V9/PCL200	5.00
10	CALL
10AL11	2.40
10BQ5	2.00
10C8	2.90
10CW5/LL86	3.70
10DA7	3.90
10DE7	4.70
10DR7/10FD7	3.00
10DX8/LCL84	4.00
10EB8/10GN8	5.60
10EG7	3.40
10EM7	2.10
10EW7	4.50
10FD7	3.00
10GF7A	5.95
10GK6	5.20
10GN8	5.60
10GV8/LCL85	3.90
10HF8	3.50
10JA5	7.70
10JA8	$ 3.90
10JT8/10LY8	6.75
10JY8/10LZ8	5.45
10KR8/10LB8	7.10
10KU8	3.40
10LB8	7.10
10LD6	8.50
10LE8	3.00
10LT8/10LW8	7.00
10LW8	7.00
10LY8	6.75
10LZ8	5.45
10S	CALL
10T10	6.20
10Y	CALL
10Z10	7.55
11AF9	10.40
11AR11	5.35
11BM8	6.70
11BQ11	5.50
11BT11	8.75
11CA11	8.00
11CF11	8.00
11CH11	9.00
11CY7	4.35
11DS5	7.35
11E2	3.25
11E3	2.00
11FY7	9.00
11HM7	6.45
11JE8	2.10
11KV8	6.15
11LQ8	6.00
11LT8	3.55
11LY6	12.75
11MS8	6.40
11R3	3.10
11Y9/LFL200	3.70
12A	22.00
12A4	2.90
12A5	4.35
12A6	3.05
12A6GT	3.05
12A7	4.80
12A8G	3.35
12A8GT	2.35
12AB5	4.30
12AC5/UF41	6.75
12AC6	1.80
12AC10A	7.25
12AD6/12AG6	1.80
12AD7	9.00
12AE6A	3.35
12AE7	4.15
12AE10	6.75
12AF3	2.75
12AF6	2.90
12AG6	1.80
12AH7	2.60
12AH7GT	2.60
12AH8	9.00
12AJ6	1.60
12AJ7/HCH81	3.90
12AL5	3.05
12AL8	2.40
12AL11	4.70
12AQ5	2.55
12AS5	3.60
12AT6/HBC90	3.30
12AT7/ECC81	5.95
12AT7WA	7.00
12AU6	3.70
12AU7A/ECC82	4.50
12AU7WA	4.50
12AV5GA	2.75
12AV6	3.30
12AV7	5.55
12AW6	1.80
12AX3	$ 3.15
12AX4GTB	2.05
12AX7A(CHINA)	3.45
12AX7A(EUR)	CALL
12AX7A(US)	11.60
12AX7WXT(SOVT)	4.90
12AY3A	3.40
12AY7	7.00
12AZ7A	4.45
12B4A	4.50
12B7/14A7	3.75
12B8GT	8.45
12BA6/HF93	3.50
12BA7	2.75
12BB14	4.00
12BD6	1.90
12BE3	3.55
12BE6/HK90	3.80
12BF6/12BU6	2.75
12BF11	8.70
12BH7A	10.65
12BK5	1.50
12BL6	2.10
12BN6	3.35
12BQ6GA	2.40
12BQ6GTA/B	2.50
12BR3/12RK19	1.80
12BR7	5.25
12BS3/A	4.00
12BT3	2.75
12BU6	2.75
12BV7/12BY7A	8.85
12BV11	6.25
12BW4	2.75
12BY7A	8.85
12BZ6	10.20
12BZ7	2.35
12C5/12CU5	3.60
12C8	3.00
12CA5/12EH5	2.90
12CK3/12CL3	3.90
12CL3	3.90
12CN5	1.80
12CR6	2.90
12CS6	2.95
12CT3	5.75
12CT8	3.50
12CU5	3.60
12CU6	2.40
12CX6	1.80
12D4/12DM4	1.80
12DA6/UF89	4.30
12DB5	1.90
12DE8	1.80
12DF5	6.00
12DF7/12DT7	4.50
12DJ8	7.00
12DK6	3.60
12DK7	3.00
12DL8	3.45
12DM4	1.80
12DM7	CALL
12DQ4	4.50
12DQ6/A	5.95
12DQ6B/12GW6	8.50
12DQ7	3.90
12DS7	3.40
12DT5	1.90
12DT7	4.50
12DT8	5.00
12DU7	2.05
12DV7	3.35
12DV8	3.60
12DW4A	3.00
12DW7/7247	13.65
12DW8	2.80
12DY8	2.10
12DZ6/12EA6	1.80
12E1	$ 4.00
12E5GT	4.80
12EA6/12EK6	1.80
12EA6	1.80
12EC8	2.40
12ED5	2.35
12EG6	1.80
12EH5	2.90
12EK6	1.80
12EL6	2.25
12EM6	2.75
12EN6	2.35
12EQ7	3.00
12EZ6	1.95
12F5	3.00
12F5GT	3.00
12F8	1.90
12FK6	1.80
12FM6	1.80
12FQ7	5.05
12FQ8	8.50
12FR8	9.65
12FV7	4.50
12FX5	3.95
12FX8A	2.75
12G4/12H4	3.50
12G8	4.50
12GA6	5.00
12GB3	2.75
12GB6	3.00
12GB7	6.50
12GC6	3.40
12GE5	6.90
12GJ5A	5.00
12GN7A/12HG7	6.55
12GT5	2.25
12GW6	8.50
12H4	3.50
12H6	3.90
12HB25	9.00
12HE7	4.50
12HG7	6.55
12HL5	9.00
12HL7	6.25
12J5	3.00
12J5GT	3.00
12J7GT	3.15
12J8	2.20
12JB6A	13.90
12JF5	17.95
12JN6/A	3.75
12JN8	1.90
12JQ6	8.75
12JT6A	5.05
12JZ8	6.45
12K5	3.55
12K7G	3.90
12K7GT	3.15
12K8	3.15
12K8GT	3.15
12KL8	3.00
12L6GT	2.05
12L8GT	3.40
12MD8	6.30
12Q7G	3.45
12Q7GT	3.45
12R5	1.50
12RK19	1.80
12S7/W142	3.40
12S8GT	2.50
12SA7	4.30
12SA7GT	4.30
12SC7	3.00
12SF5	3.80
12SF5GT	3.80
12SF7	5.35
12SG7	5.25
12SH7	5.80

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
12SJ7	$ 3.60	15KY8A/17DL8	$ 4.65	18A5	$ 2.95	24G	$ 45.00	30KD6	$ 17.00	50	CALL
12SJ7GT	3.60	15LE8	3.00	18AJ10	2.50	24JE6C/24LQ6	9.95	30MB6	9.15	50A1/D5TF30	21.40
12SK7	4.20	15MF8	8.30	18DZ8	6.00	24JZ8	4.90	30MP23	9.85	50A1TR	10.20
12SK7GT	3.90	15MX8	7.00	18FW6A	2.00	24LQ6	9.95	30MP27	7.00	50A5	3.55
12SL7GT	3.50	15R	20.00	18FX6A	1.50	25A6	4.20	30S/VT-67	4.50	50AX6G	8.00
12SN7GT/A/B	3.00	16A5/PL82	6.00	18FY6/A	2.00	25A6G	4.20	31	5.50	50B5	2.90
12SQ7	5.25	16A8/PCL82	8.25	18GB5	4.00	25A7G	5.95	31A3/UY41	8.00	50BM8/UCL82	2.40
12SQ7GT	4.95	16AK9	8.85	18GD6A	2.00	25A7GT	5.55	31AL10	5.50	50C5	3.05
12SR7/12SW7	4.00	16AQ3/XY88	4.60	18GV8/PCL85	5.00	25AC5GT	4.45	31JS6C	10.15	50C6G	4.15
12SR7GT	3.80	16BQ11	1.95	18RAL1	3.00	25AV5GA	7.35	31LQ6	10.75	50CD6G	6.00
12SW7	4.00	16BX11	2.25	19	4.80	25AV5GT	7.35	31LR8	8.05	50DC4	2.25
12SX7GT	3.00	16CB28	7.50	19A3	3.50	25AX4GT	3.80	31LZ6	17.25	50EH5	4.45
12SY7	6.75	16GK6	3.00	19AQ5	5.00	25B5	CALL	32	4.80	50FA5/50FK5	2.00
12T10	8.55	16GY5	3.90	19AU4GTA	4.15	25B6G	5.95	32ET5A	1.90	50FE5	3.60
12U7	3.80	16KA6	5.00	19BG6G/GA	4.20	25B8GT	12.85	32HQ7	4.95	50FK5	2.00
12V6GT	3.60	16LU8A	9.95	19BR5	5.35	25BB14	4.00	32L7GT	4.70	50FY8	3.50
12W6GT	3.85	16Y9	9.00	19BY7/UF85	6.00	25BK5	1.65	33	4.20	50GY7	9.00
12X3	6.00	17	17.15	19C8	2.20	25BQ6GT	2.60	33A/101K	8.00	50HC6	3.50
12X4	1.95	17A8/19EA8A	3.00	19CG3	5.55	25BR3/U329	5.00	33GT7	5.00	50HK6	3.55
12Y4	8.00	17AB9	2.50	19CL8A/19JN8	3.55	25C5	4.60	33GY7A	9.00	50HN5	9.00
12Z3	2.30	17AB10/17X10	5.90	19D8/UCH81	2.40	25C6G	4.10	33JR6	7.50	50JY6	3.50
12Z5	4.80	17AV5GA	4.90	19DE3	4.75	25CA5	4.45	33JV6	3.60	50L6GT	4.95
13CW4	15.00	17AX3	2.25	19DK3	5.70	25CD6GB	4.90	34	4.20	50X6	3.75
13D1	5.00	17AX4GTA	3.00	19DQ3	6.70	25CG3	5.10	34CD3/34CE3	3.80	50Y6GT	2.90
13DE7	2.50	17AY3/17BS3A	3.90	19EA8A	3.00	25CK3	3.90	34CE3	3.80	50Y7GT	4.00
13EM7/15EA7	6.75	17BB14	4.00	19EZ8	3.50	25CT3	2.00	34DK3	8.45	50Z7G	11.25
13FD7	3.55	17BE3/17BZ3	4.50	19FL8/UBF89	3.75	25DK3	3.90	34GD5A	1.80	52	12.00
13FM7/15FM7	4.50	17BF11	7.65	19FX5	5.00	25DK4	2.80	34R3	3.00	53	9.10
13GB5/XL500	4.55	17BH3	5.00	19G3	6.00	25DL3	9.00	35/51	4.95	53HK7	7.90
13GF7A	8.90	17BQ6GTB	4.00	19GQ7	2.45	25DN6	3.80	35A5	4.20	54	CALL
13J10/13Z10	8.20	17BR3/17RK19	6.35	19HR6	2.00	25DQ6A	3.25	35B5	1.80	55	4.80
13JZ8/A	5.50	17BS3A	3.90	19HS6	1.30	25E5/PL36	4.00	35C5	3.20	56	4.90
13V10	3.50	17BW3	6.00	19HV8	6.05	25EC6	5.00	35DZ8	3.50	57	4.50
13Z10	8.20	17BZ3	4.50	19J6	2.10	25EH5	3.35	35EH5	3.10	58	4.85
14A4	3.25	17C5/17CU5	1.80	19JN8	3.55	25F5	2.40	35GL6	4.45	58HE7	9.00
14A5	3.25	17C8/UBF80	3.50	19KG8	2.15	25HX5	7.30	35HB8	2.10	59	9.00
14A7	3.75	17C9	7.50	19LF8	4.00	25JZ8	8.50	35L6GT	3.90	60FX5	2.50
14AF7/XXD	4.70	17CB24	7.25	19MR9	2.15	25L6GT/25W6	4.65	35LR6	11.95	60HL5	3.00
14B6	4.50	17CK3	4.50	19Q9	2.00	25N6G	7.50	35T	70.00	65	5.00
14B8	3.25	17CT3	5.25	19T8	6.10	25T/HK-24	40.00	35TG	CALL	70A7GT	4.50
14BL11	6.50	17CU5	1.80	19V8	4.20	25W4GT	2.00	35W4	2.80	70L7GT	4.80
14BR11	6.90	17D4A/17DM4A	2.95	19X3	4.00	25W6	4.65	35Y4	3.00	71A	15.00
14C5	3.70	17DE4	2.00	19X8	2.10	25X6GT	4.50	35Z3	3.60	72	4.00
14C7	3.50	17DL8	4.65	19Y3/PY82	3.90	25Y5	3.85	35Z4GT	3.60	73	6.00
14E6	4.45	17DM4A	2.95	20AQ3/LY88	4.35	25Z5	3.55	35Z5GT	3.95	75	11.25
14E7	4.45	17DQ6B/17GW6	6.65	20EZ7	2.80	25Z6	4.50	35Z6G	5.00	75C1	9.00
14F7	4.45	17DW4A	4.50	20LF6	31.00	25Z6GT	3.35	36	5.45	75T	35.00
14F8	4.45	17EW8/HCC85	1.90	21A6/21B6	6.00	26	12.35	36AM3B	2.90	75TH	75.00
14G6/UBC81	3.55	17GB3	7.00	21B6	6.00	26A6	5.55	36KD6/40KD6	18.90	75TL	75.00
14GT8/14JG8	2.90	17GE5	4.50	21EX6	4.50	26A7GT	5.90	36LW6	11.90	76	9.85
14GW8/PCL86	3.00	17GJ5/A	6.00	21GY5	3.90	26AQ8/UCC85	3.00	36MC6	19.50	77	3.90
14H7	3.50	17GT5A	5.80	21HB5A	11.90	26BK6	4.00	37	5.95	78	4.20
14J7	3.50	17GV5	4.95	21HJ5	8.00	26C6	6.00	38	3.60	79	4.20
14JG8	2.90	17GW6	6.65	21JS6A/23JS6	10.95	26D6	6.00	38A3/UY85	3.60	80(ST)	9.10
14K7	4.50	17H3	2.55	21JV6	3.50	26DQ5	2.50	38HE7/38HK7	9.85	80(TUBULAR)	8.00
14L7/UBC41	4.50	17HB25	4.90	21JZ6	7.80	26E6WG	4.00	38HK7	9.85	81	11.25
14N7	3.15	17JB6A	7.60	21KA6	9.90	26FZ6	4.30	39/44	3.60	82	11.00
14Q7	3.50	17JF6	8.00	21KE6	5.00	26HU5	8.65	40	CALL	83	19.00
14R7	3.50	17JG6/A	7.20	21KQ6	7.00	26LW6	17.50	40FR5	3.70	83V	6.45
14S7	3.50	17JK8	2.95	21LG6A	8.70	26LX6	9.25	40KD6	18.90	84	6.50
14W7	3.50	17JM6	7.20	21LR8	6.30	26Z5W	7.50	40KG6A/PL519	11.35	84M	6.00
14X7	3.50	17JN6	6.50	21LU8	6.30	27	5.20	41	7.50	85	4.20
14Y4	3.20	17JQ6/A	10.50	22	7.00	27BL8/UCF80	5.00	42	14.50	85A1	7.45
15	15.00	17JT6A	4.15	22BH3A	2.55	27GB5/PL500	6.50	42EC4/A	7.80	85A2	3.50
15A6/PL83	3.50	17JZ8	6.60	22BW3	4.05	27KG6	9.85	42KN6	9.35	87S	5.00
15AF11A	4.00	17KV6A	9.30	22DE4	4.40	27LF6	28.90	43	5.40	89Y	4.20
15BD11A	6.70	17KW6/PL508	8.00	22JF6/22KM6	9.75	28D7/W	4.40	45	43.00	90C1	5.00
15CW5/PL84	5.20	17L6GT	3.00	22JG6A	6.90	28Z5	3.00	45(SPL)/VT-52	CALL	90CG	CALL
15DQ8/PCL84	4.70	17LD8	9.00	22JR6	7.00	29GK6	2.50	45A5/UL41	14.00	90CV	15.00
15E	12.00	17R5	4.00	22JU6	8.20	29KQ6	11.85	45B5/UL84	3.40	100TH	50.00
15EA7	6.75	17RK19	6.35	22KM6	9.75	29LE6	8.80	45Z3	1.80	101D(WE)	CALL
15EW6	4.70	17W6GT	3.00	22KV6A	7.70	30	5.45	45Z5GT	3.40	101F(WE)	CALL
15EW7	3.60	17X10	5.90	23JS6	10.95	30A5/HL94	6.00	46	12.85	101L(WE)	CALL
15FM7	4.50	17Y9	9.95	23Z9	6.05	30AE3/PY88	6.85	47	15.55	101M(WE)	CALL
15FY7	3.90	17Z3/PY81	3.00	24A	8.60	30AG11	4.00	48	12.85	102F(WE)	CALL
15HB6	3.00	18	8.50	24BF11	4.00	30JZ6	15.50	49	10.20	102L(WE)	CALL

*Type 50A1TR is a plug-in resistor which replaces the standard 50A1.

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
114B	CALL	398A(WE)	$ 12.85	673	$ 35.00	874	$ 9.00	1626	$ 3.00	5679	$ 9.00
117L7	6.00	399A/B	12.00	677	CALL	876	9.00	1629	5.30	5684	CALL
117N7GT	6.50	400A/B	12.00	678	CALL	878A	15.00	1630	10.70	5684NE	25.00
117P7GT	5.45	401A	3.50	702A	9.00	879	3.00	1631	9.00	5685	75.00
117Z3	4.20	403A(WE)	CALL	703A	20.00	884	9.00	1632	3.00	5686	9.00
117Z4GT	4.20	403B	8.00	705A	9.00	885	6.00	1633	5.00	5687	3.50
117Z6GT	4.50	404A	15.00	705A(WE)	9.00	886	26.75	1635	5.00	5690	55.00
124A	30.00	407A	6.00	707B	26.75	913	26.75	1641/RK60	CALL	5691	CALL
150B3	5.00	408A	3.00	709A	15.00	917	24.00	1642	6.45	5692	CALL
150C4	3.00	409A	5.00	710/6011	70.00	918/CE-1C	23.00	1644	3.50	5693	12.85
160L	CALL	412A/6754	9.00	710L/7509A	55.00	919	20.00	1649	4.10	5694	7.00
203A	90.00	413B	20.00	713A	4.00	920	16.05	1654	9.00	5696/A	4.00
211/VT-4C	CALL	415A	4.50	714/7021	35.00	921	6.00	1851	7.50	5702	9.00
217C	CALL	416B/6280	15.00	715B/C	20.00	922	27.00	1852	4.10	5703	8.00
221A	20.00	416C	15.00	716/6855	CALL	923	20.00	1853	4.50	5718/A/EC70	8.50
239A(WE)	CALL	416D	15.00	717A	20.00	924	20.00	2022	12.00	5719	8.00
242(WE)	CALL	417A/5842	8.60	719A	4.50	925	20.00	2033	4.50	5720/FG33	CALL
245A	CALL	418A	19.30	723A/B	18.00	926	16.05	2050/A	12.85	5721/QK209	60.00
247A(WE)	CALL	420A(WE)	CALL	724B	18.00	927	22.00	2051	11.00	5722	9.65
249B(WE)	40.00	421A(WE)	CALL	726A/B/C	8.00	928	14.00	2057	3.00	5725/6AS6W	4.25
249C	10.70	422A(WE)	CALL	734/5544	CALL	929	CALL	3533	9.00	5726/6AL5W	2.50
250TH	CALL	423A/B	8.00	734L	70.00	930	9.00	4042	15.00	5727/2D21	3.00
250TL	CALL	423C	9.00	740/6856	80.00	931A/B	30.00	4043	25.00	5728	CALL
253A(WE)	CALL	426A	8.00	740L/7022	95.00	932/1229	5.00	4046/A	30.00	5736	CALL
259A(WE)	CALL	427A	5.00	740P/6857	CALL	934	23.00	4310A	16.00	5744/6151	11.00
262A/B(WE)	27.00	429A	9.65	759	50.00	935	82.00	4532U	CALL	5749/6BA6W	3.50
267B	15.00	432B(WE)	4.00	760/6858	95.00	936	2.50	4652	12.00	5750/6BE6W	3.50
272A(WE)	CALL	436A(WE)	10.00	760L/7023	90.00	950	9.65	4657	70.00	5751	9.10
274A(WE)	CALL	442A(WE)	CALL	760P/6859	95.00	951	9.00	4848	52.50	5755/420A	9.00
274B(WE)	CALL	443A(WE)	6.00	770L	CALL	954	6.95	5031	5.00	5763	12.00
275A(WE)	CALL	446A(WE)	9.00	800	CALL	955	4.50	5092/8421	25.00	5783	8.00
287A(WE)	9.00	448A/B	6.45	801A	CALL	956	8.00	5514	CALL	5784	5.00
292A(WE)	9.00	450A(WE)	20.00	802	12.00	957	6.95	5516	15.00	5785	5.00
293A(WE)	CALL	450TH/VT108	CALL	803	26.75	958	8.00	5517	15.00	5787	10.00
294A(WE)	CALL	451	43.00	804	15.00	959	9.00	5544	CALL	5796	37.50
297A(WE)	6.00	453A(WE)	4.00	805/331A	CALL	967	49.00	5545	CALL	5797	4.00
300B(CETRON)	CALL	454A(WE)	15.00	807	11.25	991	2.15	5550/GL415	95.00	5798	4.00
300B(CHINA)	69.00	471A/1B21A	10.00	807W	12.00	1005	10.00	5557/FG-17	49.00	5814A	3.75
300B(WE)	CALL	481B	48.00	808	CALL	1006	16.05	5558/FG-32	35.00	5819	95.00
304TH	CALL	485(ST)	12.85	809	30.00	1007	2.00	5559/FG-57	50.00	5823/Z900T	20.00
304TL	CALL	502A	13.00	810	CALL	1022	60.00	5560/FG-95	75.00	5824	18.00
307A(WE)	12.85	512AX	12.00	811A(CHINA)	12.00	1026	9.00	5561/FG-104	CALL	5825	70.00
310A/B(WE)	CALL	518AX	9.00	811A(SOVT)	18.00	1032A	50.00	5581	18.00	5829	13.00
310A(CETRON)	CALL	520A	9.00	811A(US)	35.00	1038	7.00	5582	35.00	5836	CALL
311A/B(WE)	17.15	522AX	8.00	812/A(US)	59.00	1054	6.00	5583	39.00	5837	CALL
311T	CALL	526AX	9.00	812A(CHINA)	25.00	1089	5.00	5590/401A	3.50	5839	7.50
313C/CA	5.00	527AX	9.00	813	32.10	1163	1.50	5591/403B	8.00	5840/6225	12.00
316A	CALL	533AX	10.00	814	25.00	1201	3.50	5608A	30.00	5841	4.00
323A/B	10.00	534AX	10.00	815	15.00	1203A	4.05	5610	6.00	5842	8.60
328A	8.00	547DX	8.50	816	24.00	1204	6.00	5618	4.00	5844	5.00
328A(WE)	CALL	548DX	12.00	826	43.00	1217	3.00	5632	CALL	5845	5.00
329A(WE)	19.30	572B/160L(US)	CALL	828	75.00	1218A	3.00	5635	3.00	5847/404A	15.00
331A	CALL	572B(CHINA)	49.00	829B/3E29	14.00	1222A	9.00	5636	8.00	5852	9.00
337A(WE)	16.05	573AX	7.00	830B	48.50	1229	5.00	5637	8.00	5854	2.00
338A(WE)	10.00	575A/F375A	CALL	832A	8.00	1231	4.30	5638	8.00	5857	45.00
339A(WE)	CALL	576	70.00	833A	CALL	1232	4.05	5639	8.00	5861/EC55	CALL
345A(WE)	CALL	578	43.00	834	CALL	1236	15.00	5641	8.00	5866/9900	50.00
348A(WE)	CALL	592	CALL	835	50.00	1247	5.00	5642	8.00	5866A/7986	95.00
349A(WE)	CALL	604/7014	95.00	836	19.00	1252	5.00	5643	8.00	5867/AX9901	CALL
350A(WE)	CALL	604L/7015	70.00	837	8.00	1273	3.00	5644	20.00	5868	CALL
350B(WE)	CALL	606/7016	CALL	838	39.60	1291	2.90	5647	17.00	5869/9950	CALL
352A(WE)	37.50	606L/7017	65.00	841	20.40	1294	2.30	5650/5981	50.00	5870L	18.00
353A(WE)	5.00	610/7723	CALL	842	CALL	1299	3.60	5651A	3.45	5876A	25.00
354A(WE)	30.00	615/7018	CALL	843	25.70	1603	CALL	5652	12.00	5877	65.00
368AS(WE)	7.50	616	45.00	845	CALL	1608	15.00	5653	CALL	5879	10.00
371B	16.05	618	35.00	845(CHINA)	39.00	1609	8.00	5654/6AK5W	3.00	5881/6L6WGB	17.50
373A(WE)	12.00	623	70.00	849	95.00	1611	7.50	5656	15.00	5881(SOVT)	6.75
374A(WE)	12.00	627	90.00	850	60.00	1612	4.25	5659	3.05	5881WXT(SOVT)	8.75
375A(WE)	14.00	629	85.00	860	CALL	1613	8.25	5660	3.00	5886	CALL
376C	8.00	631P1/SN4	30.00	861	CALL	1614	22.00	5661	3.90	5894/AX9903	45.00
381	20.00	635/7019	65.00	864	12.00	1616	8.00	5662	5.00	5896	8.00
384A	10.00	635L/7020	70.00	865	20.00	1619	9.00	5663	3.00	5899	8.50
386A	10.00	635P	55.00	866A	15.00	1620	11.00	5665/C16J	CALL	5900	4.00
387A(WE)	3.50	643	CALL	866AX	20.00	1621	6.45	5670/2C51W	5.35	5901	12.00
388A(WE)	CALL	649	30.00	866JR	10.70	1622	16.00	5672/DL69	4.00	5902	8.00
393A	25.00	660L/7786	CALL	868/PJ23	18.00	1623	30.00	5675	40.00	5903	5.00
394A	20.00	660P	CALL	872/A	60.00	1624	17.15	5676	7.50	5904/6055	9.00
396A/2C51	5.35	672A	80.00	873	CALL	1625	4.50	5678	4.00	5905	CALL

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
5906	$ 9.00	6146B/8298A	$ 22.15	6661/6BH6	$ 7.35	7036	$ 7.70	7645	$ 35.00	8077	$ 4.50
5907/6056	5.00	6146B(CHINA)	13.95	6662/6BJ6	3.00	7044	9.10	7683	7.00	8084	7.00
5908	10.00	6146W/7212	16.05	6663/6AL5	3.35	7054/8077	4.50	7687	9.00	8102	2.50
5915	4.50	6151	11.00	6664/6AB4	3.50	7055	3.50	7693	12.00	8103	5.00
5916	3.00	6153	12.00	6669/6AQ5A	3.80	7056	6.30	7695	4.70	8106	12.00
5920/E90CC	9.00	6155	CALL	6676/6CB6A	3.80	7057	5.00	7698	CALL	8113/6CY5	6.00
5930/2A3W	CALL	6156	70.00	6677/6CL6	3.50	7058	6.30	7699	20.00	8116	CALL
5931/5U4WG	16.65	6159A	7.00	6678/6U8A	5.00	7059	5.00	7701	7.00	8117A	CALL
5932/6L6WGB	19.30	6159B	12.00	6679/12AT7	7.00	7060	5.50	7710/Z70U	25.00	8121	95.00
5933/807W	12.00	6161	25.00	6680/12AU7A	4.20	7061	3.30	7711	10.00	8122	CALL
5934	30.00	6173	25.00	6681/12AX7A	CALL	7062/E180CC	9.00	7716	4.50	8136	3.00
5947	10.00	6174	3.00	6686/E81L	8.00	7077	65.00	7717	4.00	8150	15.00
5949A	CALL	6177A	CALL	6687/E91H	8.00	7094	CALL	7719	15.00	8156	20.00
5962	1.50	6186/6AG5WA	5.95	6688/E180F	9.00	7105	6.00	7720	CALL	8163	CALL
5963/12AU7A	3.00	6187/6AS6	4.75	6689/E83F	12.00	7117	25.00	7721	4.30	8165	75.00
5964	3.25	6188	6.00	6754	9.00	7119/E182CC	13.00	7722/E280F	18.00	8167	CALL
5965/A	2.90	6189/12AU7WA	4.50	6775	CALL	7136	CALL	7723	CALL	8187	CALL
5969	4.50	6197	4.00	6788	3.00	7153	20.00	7723NE	CALL	8210	5.00
5972	4.00	6199	75.00	6792	6.00	7163	7.00	7724	3.00	8223/E288CC	CALL
5977	8.00	6201/12AT7WA	7.00	6802	16.00	7167	4.00	7728/12AT7	CALL	8228/ZZ1000	9.00
5979	35.00	6202/6X4WA	4.50	6807	CALL	7189/A	9.65	7729	10.00	8233/E55L	41.00
5981	50.00	6203	10.00	6808	95.00	7191	6.00	7730/12AU7A	CALL	8236	29.00
5987/SC968B	10.70	6205	5.00	6814	3.00	7193/2C22	8.00	7731	4.30	8245	40.00
5991	32.10	6206	15.00	6816	CALL	7199	24.00	7732	4.50	8254	18.00
5992	7.00	6211A	4.00	6829	12.00	7199(SOVT)	13.80	7733/12BY7A	CALL	8255/E88C	15.00
5993	6.00	6213	7.00	6842	35.00	7203	95.00	7734	25.00	8278/EL503	CALL
5998	16.05	6216	7.00	6844A	32.10	7204	70.00	7735A	75.00	8296/4X150R	40.00
5998A	14.00	6217	CALL	6850	35.00	7211	55.00	7737/E186F	15.00	8298A	22.15
6000	14.00	6225	12.00	6855	CALL	7212	16.05	7738	10.00	8306	50.00
6004	2.00	6227/E80L	45.00	6856	80.00	7233	11.85	7739	25.00	8321	CALL
6005/6AQ5W	4.85	6236	90.00	6857	CALL	7235	CALL	7748	10.00	8322	CALL
6007	6.00	6247	13.50	6858	95.00	7236	43.00	7751/E235L	29.00	8334/1218A	3.00
6011	70.00	6252	35.00	6859	95.00	7239	55.00	7754	6.00	8348	4.00
6012	70.00	6265	6.45	6870	15.00	7241	CALL	7760	5.00	8393	15.00
6013	CALL	6267/EF86	4.85	6872	10.00	7242	CALL	7761	5.00	8408	20.00
6014	50.50	6268	CALL	6883B/8552	12.00	7244	3.50	7786	CALL	8414	5.00
6021	7.50	6279	CALL	6884	70.00	7247	13.65	7786NE	60.00	8416	15.00
6028/408A	3.00	6280	15.00	6887	8.50	7258	4.00	7788/E810F	35.35	8417	CALL
6029/573AX	7.00	6286	4.00	6888	9.00	7262A	CALL	7801	CALL	8421	25.00
6038	30.00	6292	70.00	6889	9.00	7289/2C39A	40.00	7815/AL	CALL	8422/5991	32.10
6045	11.00	6293	20.00	6893	6.00	7306/C3JA	25.00	7831	5.00	8425A/6AU6A	3.25
6046	4.65	6299	CALL	6895	30.00	7306A	CALL	7854	70.00	8426	5.00
6050	6.00	6308	4.00	6897	90.00	7308/E188CC	9.60	7861	7.00	8438	CALL
6055	9.00	6328	CALL	6900	9.00	7316	6.45	7867	13.90	8445	3.00
6056	5.00	6336/A/B	53.50	6907	55.00	7320/E84L	15.00	7868	CALL	8453	10.00
6060/ECC801	5.35	6342A	CALL	6909	15.00	7323	5.00	7888	5.00	8457	20.00
6072/A	8.00	6346	CALL	6910	20.00	7327	8.00	7894	19.00	8458/YL1240	30.00
6073	4.50	6350	4.20	6919	5.00	7355	13.95	7895	12.85	8463	20.00
6074	5.00	6354	10.00	6922/E88CC	7.90	7360	37.50	7898	8.00	8489/6AN8	5.00
6080	9.00	6360/A	7.25	6922(SOVT)	6.25	7363	25.00	7902	70.00	8502	10.00
6080WC	9.00	6383	30.00	6923/EA52	60.00	7370	9.00	7905	15.00	8507	70.00
6082/A	11.00	6384	30.00	6939	32.00	7377/QQE04/5	60.00	7962	9.00	8532	5.00
6083/AX9909	CALL	6386	CALL	6943	4.00	7403/3D21WB	40.00	7963	5.00	8538	CALL
6084/E80F	23.55	6390	CALL	6944	5.00	7408/6V6GT	5.95	7978	10.00	8552	12.00
6085/E80CC	38.55	6397	7.50	6945	4.00	7410	16.00	7983	35.00	8556/EC8010	15.00
6087/5Y3WGTB	8.10	6414	6.00	6948	15.00	7412	2.00	7984	13.40	8560A	CALL
6088/522AX	8.00	6417	7.00	6955	7.00	7427	2.00	7986	95.00	8560AS	CALL
6094	CALL	6418/548DX	12.00	6957	10.00	7462	20.00	8000	CALL	8562	15.00
6095	5.20	6438/1038	7.00	6973	24.00	7475	1.50	8003	30.00	8577	22.00
6096	3.00	6442	60.00	6977/DM160	13.00	7486	CALL	8005	CALL	8595	35.00
6097	2.50	6463	4.00	6989/C6J/KL	75.00	7509A	55.00	8008	48.00	8596	CALL
6098/6AR6WA	8.60	6481	55.00	7009	70.00	7534/E130L	43.00	8012/A	30.00	8608	30.00
6099/6J6	3.60	6483	7.00	7014	95.00	7536	2.00	8013/A	35.00	8613	CALL
6100/6C4WA	4.00	6484	40.00	7015	70.00	7543/E130LF	4.55	8016	6.00	8621	70.00
6101/6J6WA	3.60	6485/6AH6WA	3.00	7016	CALL	7548	35.00	8020/451	43.00	8643	95.00
6106/5Y3WGT	6.50	6489/EA76	10.00	7017	65.00	7550	7.50	8025/A	26.75	8683	40.00
6110	9.00	6520	8.60	7018	CALL	7551	9.00	8032A/8552	12.00	8727	55.00
6111	7.00	6528/A	60.00	7019	65.00	7554	55.00	8035	20.00	8753	40.00
6112	6.50	6542	35.00	7020	70.00	7556A	40.00	8042/4652	12.00	8754	30.00
6113	CALL	6550/A(US)	26.75	7021	35.00	7558	10.10	8049	12.00	8765	30.00
6115A	CALL	6550(US-ST)	CALL	7022	CALL	7580	CALL	8056	24.00	8843	9.00
6118	3.50	6550A(CHINA)	9.90	7023	90.00	7581A/KT66	CALL	8058	45.00	8844	34.25
6130	55.00	6550WA(SOVT)	15.90	7025/12AX7A	CALL	7586	35.00	8059	CALL	8873	CALL
6134/6AC7WA	6.50	6570	45.00	7025(SOVT)	4.70	7587	CALL	8064	5.00	8874	CALL
6135	3.50	6611	4.00	7025B(SOVT)	3.90	7588	CALL	8068	CALL	8877	CALL
6136/6AU6WA	4.00	6626/0A2WA	3.90	7027A	CALL	7591A	CALL	8070	5.00	8908	CALL
6137/6SK7WA	4.00	6627/0B2WA	3.90	7034	55.00	7609	60.00	8071	5.00	8930	CALL
6146/A	15.55	6660/6BA6	3.50	7035	65.00	7643/E80CF	21.40	8072	CALL	8950	CALL

TUBE TYPE	PRICE
8964	$ 50.00
8965	CALL
9001	6.00
9002	6.00
9003	6.00
9004	6.00
9005	8.00
9006	3.50
9900	50.00
9950	CALL
A59RX	16.00
A1714	5.00
A2293	10.00
A2900	9.00
AC701	CALL
ARP4	3.55
ARP19	1.50
AV11	1.50
AX9903	45.00
AX9909	CALL
AX9912	CALL
AZ1	7.00
AZ11	5.35
AZ31	4.85
AZ41	7.00
B5961	35.00
B5991	32.10
C1A	CALL
C1J/A	50.50
C1K/6014	50.50
C3J/5632	CALL
C3J/AL/7556A	40.00
C3J/L	40.00
C3JA/5684	CALL
C6H-2	CALL
C6J/5C21	45.00
C6J/K/5685	75.00
C6J/KL	75.00
C16J	CALL
CAA-322	CALL
CE201A	15.00
CE-1C	23.00
CEA30	CALL
CV51	7.00
D5TF30	21.40
DA2000	CALL
DAF91	1.60
DAF96	CALL
DC90	6.50
DCC90	3.00
DF63	3.00
DF64	3.00
DF72	3.00
DF91	3.00
DF92	3.00
DF97	2.65
DG7-32	60.00
DH101	1.50
DK91	2.30
DK92	4.50
DK96	3.85
DL41	3.25
DL64	1.50
DL69	4.00
DL92	1.90
DL94	6.70
DL96	4.20
DL98	2.00
DM70	4.70
DM71	4.70
DM160	13.00
DR2000	8.00
DR2010	12.00
DR2020	12.00
DR2030	11.00
DR2100	12.00
DR2110	7.50
DR2115	7.50

TUBE TYPE	PRICE
DR2120	$ 8.50
DR2130	10.00
DR2200	11.00
DR2210	12.00
DR2220	10.00
DY51	2.10
DY87	3.35
DY802	3.15
E55L	41.00
E80CC	38.55
E80CF	21.40
E80F	23.55
E80L	45.00
E81L	8.00
E82CC	CALL
E83F	12.00
E84L	15.00
E88C	15.00
E88CC	7.90
E90CC	9.00
E90F	3.90
E91H	8.00
E99F	3.00
E130L	43.00
E130LF	4.55
E180CC	9.00
E180F	9.00
E182CC	13.00
E186F	15.00
E188CC	9.60
E235L	29.00
E280F	18.00
E288CC	CALL
E810F	35.35
E1148	3.00
EA52	60.00
EA53	CALL
EA76	10.00
EAA91	2.50
EABC80	4.70
EAF42	4.75
EAF801	8.60
EB41	5.00
EB91	2.50
EBC33	6.75
EBC41	3.70
EBC81	5.25
EBC91	2.90
EBF80	6.00
EBF83	3.00
EBF89	4.15
EBL1	CALL
EBL21	6.45
EBL31	15.00
EC54/CV66	4.50
EC55	CALL
EC70	8.50
EC80	25.00
EC86	4.35
EC88	5.95
EC90	4.00
EC91	9.85
EC92	3.50
EC95	2.30
EC97	2.35
EC8010	15.00
ECC32(CV181)	5.00
ECC33	CALL
ECC35	CALL
ECC40	CALL
ECC81	5.95
ECC82	4.50
ECC83	11.60
ECC84	3.60
ECC85	6.20
ECC86	3.25
ECC88	4.95
ECC91	3.60

TUBE TYPE	PRICE
ECC189	$ 5.95
ECC801	5.35
ECC803S	CALL
ECC808	CALL
ECF80	4.20
ECF82	5.00
ECF83	CALL
ECF86	4.00
ECF200	5.30
ECF201	3.00
ECF801	5.20
ECF802	4.80
ECF805	12.00
ECH11	CALL
ECH21	CALL
ECH35	9.00
ECH42	6.45
ECH80	9.00
ECH81	4.75
ECH83	3.90
ECH84	4.50
ECL80	1.95
ECL82	5.00
ECL83	6.00
ECL84	4.70
ECL85	3.85
ECL86	6.20
ECL113	7.50
ECLL800	43.00
ED500	9.00
EF9	CALL
EF11	CALL
EF14	10.00
EF22	3.00
EF36	4.05
EF37A	CALL
EF40	5.05
EF41	5.25
EF42	6.00
EF43	CALL
EF50	3.85
EF52/CV327	1.50
EF80	2.55
EF83	3.25
EF85	3.00
EF86	4.85
EF89	7.25
EF91	5.00
EF92	4.00
EF93	3.50
EF94	4.00
EF95	3.00
EF98	3.10
EF183	4.45
EF184	5.10
EF800	3.90
EF804	CALL
EF805S	CALL
EF806	CALL
EFL200	3.90
EH90	4.25
EK90	3.25
EL1C	20.00
EL3B/6013	CALL
EL3C	65.00
EL6B	CALL
EL6C	50.00
EL6Y	CALL
EL11	16.05
EL12	CALL
EL16F	70.00
EL32/CV1052	2.50
EL33	14.00
EL34	22.00
EL34G(SOVT)	7.50
EL34L(TESLA)	11.90
EL36	9.00
EL37	12.85

TUBE TYPE	PRICE
EL38	$ 15.00
EL41	8.40
EL42	8.50
EL81	15.00
EL83	11.40
EL84	6.70
EL85	4.20
EL86	5.00
EL90	3.80
EL91	9.85
EL95	5.50
EL360	3.75
EL500	6.45
EL509	CALL
EL803	4.30
EL805	8.00
EL821	15.00
EL822	9.65
ELL80	30.00
EM5	15.00
EM15	CALL
EM34	40.00
EM35	26.75
EM71	10.50
EM80	5.25
EM81	4.90
EM84	5.50
EM85	CALL
EM87	2.80
EMM801	50.00
EMM803	CALL
EQ80	3.00
EY51	4.50
EY80	3.50
EY81	2.25
EY87	2.65
EY88	4.70
EZ35	3.85
EZ40	5.50
EZ41	4.70
EZ80	4.95
EZ81	4.45
EZ90	3.85
F375A	CALL
FG-17	49.00
FG-33	CALL
FG-57	50.00
FG-67/5728	CALL
FG-95	75.00
FG-104	CALL
FG-105	CALL
FG-172	80.00
FG-178/A	CALL
FG-280	CALL
FM1000	7.25
FW4-500	12.00
G-2-S	9.00
GL415	95.00
GZ30	8.35
GZ32	CALL
GZ33	9.90
GZ34	CALL
GZ37	11.00
H63	4.20
HBC90	3.30
HCC85	1.90
HCH81	3.90
HF93	3.50
HF100/4C22	40.00
HF300/T300	CALL
HK90	3.80
HK-24	40.00
HL94	6.00
HP-45B	50.00
HY31Z	50.00
HY69	4.30
HY75	12.00
KT41/AC2/PEN	6.00

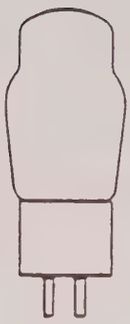
TUBE TYPE	PRICE
KT61	$ 10.00
KT66	CALL
KT67	11.00
KT88(CHINA)	14.90
KT88(GEC)	CALL
KTW61	6.50
KTW62/VR100	1.50
KTZ63	9.00
LCF200	5.00
LCF201	4.15
LCF801	5.45
LCF802	3.40
LCL84	4.00
LCL85	3.90
LF183	3.70
LF184	4.75
LFL200	3.70
LL86	3.70
LY88	4.35
M-2057	CALL
M8136	CALL
ML4	7.00
MU12/14	4.50
MU14	5.50
N142	3.40
NL807	11.25
NL809	30.00
NL840/8754	30.00
NL841	19.00
NL848	17.00
NL5440	15.00
NL5442A	9.00
NL5750CS	9.65
NL5870	9.00
NL5870S	9.65
NL5961	9.65
NL5992	9.00
NL8037/5031	5.00
NS1/5458	3.00
OM4	4.20
PABC80	2.60
PCC84	4.00
PCC85	4.50
PCC88	4.45
PCF86	4.30
PCF801	4.60
PCF802	4.45
PCL82	8.25
PCL84	4.70
PCL85	5.00
PCL86	3.00
PCL200	5.00
PF86	3.00
PJ23	18.00
PL21	3.00
PL36	4.00
PL81	6.00
PL82	6.00
PL83	3.50
PL84	5.20
PL500	6.50
PL508	8.00
PL519	11.35
PY81	3.00
PY82	3.90
PY83	3.00
PY88	6.85
QK209	60.00
QQE03/2	35.00
QQE04/5	60.00
RK22/3B23	10.00
RK34	4.00
RK39	15.00
RK43	10.00
RK49	CALL
RK53	7.00
RK60	CALL
RK61	CALL

TUBE TYPE	PRICE
RX21A	CALL
SC968B	10.70
SN4	30.00
T300	CALL
T-20	CALL
T-21	10.00
T-40	CALL
T-55	20.00
T-125	35.00
TJ880	12.00
TT11/VT501	4.50
TZ-20	30.00
TZ-40	CALL
U22	1.50
U25	1.50
U37	6.00
U329	5.00
UABC80	3.30
UBC41	4.50
UBC81	3.55
UBF80	3.50
UBF89	3.75
UCC85	3.00
UCF80	5.00
UCH21	3.60
UCH81	2.40
UCL82	2.40
UF41	6.75
UF42/43	2.15
UF85	6.00
UF86	CALL
UF89	4.30
UL41	14.00
UL84	3.40
UM4	3.50
UXCV11	CALL
UY41	8.00
UY85	3.60
V-70-D	70.00
VI103	12.00
VR75	4.50
VR90	2.90
VR105	4.50
VR150	4.50
VT-4C	CALL
VT-52	CALL
VU71	12.35
W142	3.40
X66/CV1099	4.50
XCF80	2.90
XF183	2.80
XF184	4.00
XL86	3.90
XL500	4.55
XXB	1.75
XXD	4.70
XXFM	3.30
XXL	4.50
XY88	4.60
Y65	9.00
YC95	3.25
YL1080	10.00
YL1240	30.00
Z70U	25.00
Z900T	20.00
ZM1000	32.10
ZM1001	39.00
ZM1005	25.00
ZM1030	30.00
ZZ1000	9.00

See following page for antique and used tubes.

TUBE SHAPES AND NAMES

S SHAPE
(Balloon, Globe)



ST SHAPE
(Shoulder)

GT SHAPE
(Tubular)

LOCTAL

METAL

MINIATURE

ANTIQUE TUBE TYPES

We try to maintain a stock of the early tubes listed below; however, supplies are very limited. Prices shown are for used tubes which are tested and fully guaranteed. Some new early tubes are available from time to time as well as "collector's tubes." Inquire for availability and prices.

We also have some types below which test weak but are operational. These are priced at 50% of the prices shown. Display tubes (open filament or shorted) of most types are available at 20% of the prices shown. Price and availability of tubes with "CALL" under **PRICE** will be quoted at the time of inquiry.

The following listing shows the popular (RCA) three digit designation for most types. Tubes supplied may be corresponding types in other brands. For example 201A in Cunningham is 301A, etc. All are early globe or balloon shapes (types 199, WD-11, WD-12 and WX-12 are tubular).

TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
01A(ST)	$ 10.20	226	$ 9.40	238	$ 8.60	282	$ 15.00	874	$ 9.65	WD-12	$ 48.50
41	9.00	227	5.05	239/244	5.70	285	12.00	876	CALL	WX-12	37.50
42	15.00	230	12.85	240	17.15	401 CARDON	20.00	877	5.50	X199	25.70
112A	20.40	231	10.70	245	CALL	401 KELLOG	25.00	886	CALL	X200A	14.00
120	20.00	232	12.00	246	21.40	403 KELLOG	CALL	BH	8.50	X201A	11.50
171/A	16.05	233	CALL	247	15.00	482A	15.00	BR	8.10		
183/483	19.30	234	12.00	250	CALL	482B	16.05	V199	31.05		
210	CALL	235/251	4.30	256	13.95	484	12.00	V201A	12.00		
222	10.20	236	4.00	280	CALL	485	12.00	WD-11	65.00		
224	4.00	237	17.15	281	14.45	586	CALL	WD-11S*	23.00		

*WD-11S is a new type 864 tube rebased to fit WD-11 sockets. Excellent direct replacement for type WD-11.

USED TUBE TYPES

The following listing shows available used tubes in types that have become scarce and expensive. These types are also listed in the new section, but may not always be available.

All used tubes have been tested by us and are guaranteed to meet or exceed the minimum specification for transconductance. All have been boxed by us in clean white boxes and are guaranteed to be high quality.

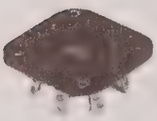
TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE	TUBE TYPE	PRICE
2A3	$ 19.30	6AC5GT	$ 4.50	6KV6A	$ 14.00	10(ST)	$ 12.85	71A(ST)	$ 7.50	845	CALL
2A3(S/P)	CALL	6AS7G	4.00	6L6	CALL	12A(ST)	16.05	75(ST)	3.75	950(ST)	5.00
2A5	5.50	6B4G	12.85	6L6G	9.65	12AX7A(US)	5.35	76(ST)	3.75	5692	11.00
2B6(ST)	5.00	6BK4C	7.00	6L6GC	7.50	12BH7A	4.95	80(ST)	4.55	5932	8.60
5AR4/GZ34	10.00	6C5G	3.50	6LB6	8.00	15	11.00	81(ST)	5.00	5933	6.00
5AS4A/5U4GB	4.85	6CA7(EUR)	12.00	6LF6/6MH6	15.00	20LF6	15.00	82(ST)	6.00	6080	4.00
5R4WGA/B/Y	2.75	6F5G	5.35	6LX6	14.00	24A(ST)	2.90	182B	CALL	6146/A/B	9.00
5U4G	4.30	6F6G	4.95	6MJ6	20.00	26(ST)	4.30	211(VT-4C)	CALL	6336/A/B	20.00
5V4G	3.50	6F6GT	3.80	6N6G	CALL	27(ST)	2.60	310A	7.50	6550(US-ST)	CALL
5Y3G	3.85	6J5G	4.85	6P5G	4.85	40(ST)	CALL	418A	9.00	7027A	18.00
6A3	15.00	6JB6A	8.50	6P5GT	4.50	42(ST)	7.50	715A/B	12.00	7591	16.05
6A5	CALL	6JE6C/6LQ6	18.00	6Q7G	3.00	45(ST)	21.40	801/A	CALL	8417	12.85
6A5G	17.15	6JS6C	14.00	6T5	CALL	46(ST)	7.00	807	4.85	8950	21.40
6A7	3.25	6K5G	4.85	6V6G	4.50	47(ST)	7.00	810	60.00	T-40	12.00
6AC5G	4.30	6KD6	14.00	6V6GT	2.75	50(ST)	CALL	811A(US)	16.00	TZ-40	15.00

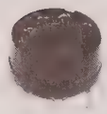
PS-205M

PS-191

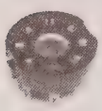
PS-312

PS-310


PS-209W


PS-193

PS-218


PS-185

PS-211PC

PS-295M

PS-473

TUBE SOCKETS

For replacements or construction projects.

4 pin molded with mtg. plate, 1 1/2" mtg. centers
No. PS-205M $ 3.25

4 pin ceramic, 1 3/4" mtg. centers (from China)
No. PS-191 3.25

4 pin ceramic, bayonet shell type (for 572B, 811A), 2" mtg. centers (from China)
No. PS-312 6.50

4 pin ceramic, large bayonet shell type (for 211, 845), 2 7/8" mtg. centers (from China)
No. PS-192 8.00

5 pin molded with mtg. plate, 1 3/4" mtg. centers
No. PS-181 3.25

6 pin molded with mtg. plate, 1 1/2" mtg. centers
No. PS-207M 3.50

7 pin molded with mtg. plate, 1 11/13" mtg. centers
No. PS-190 2.50

7 pin ceramic with mtg. plate, 1 1/2" mtg. centers
No. PS-170 2.50

7 pin ceramic (for 6C33CB), 1 7/8" x 1 7/8" mtg. centers (from Russia)
No. PS-310 4.50

Octal molded with mtg. plate 1 1/2" mtg. centers
No. PS-209M 2.50

Octal phenolic wafer, 1 1/2" mtg. centers
No. PS-209W .80

Octal molded, p.c. mount
No. PS-193 2.50

Octal ceramic with gold-plated contacts. Mount in 1 1/8" diameter hole. (from China).
No. PS-218 3.50

Loctal molded, mount in 1" dia. hole.
No. PS-185 2.50

7 pin miniature, molded with mtg. plate, 7/8" centers
No. PS-201M 1.90

7 pin miniature phenolic wafer, 1" mtg. centers
No. PS-201 .60

7 pin miniature, p.c. mount
No. PS-201PC 1.90

7 pin miniature ceramic, with shield base, 7/8" mtg. centers
No. PS-202 2.50

7 pin miniature ceramic, 7/8" mtg. centers
No. PS-204 2.00

9 pin miniature, molded with mtg. plate, 1 1/8" centers
No. PS-211M 1.90

9 pin miniature phenolic wafer, 1 1/8" mtg. centers
No. PS-169 .80

9 pin miniature, p.c. mount
No. PS-211PC 1.90

9 pin compactron, molded with mtg. plate, 1 5/16" centers
No. PS-254M 2.50

12 pin compactron, molded with mtg. plate, 1 5/16" centers
No. PS-295M 2.50

5 pin nuvistor, p.c. mount
No. PS-472 2.50

5 pin nuvistor, mount in 1/2" dia. hole
No. PS-473 2.50

TUNING EYE ADAPTER

6 pin plug-in adapter allows hard-to-find 6U5 or similar tuning eye tubes to be replaced with readily available 1629 tubes.
No. PS-314 $13.95

4-PIN TUBE BASE

Use for 4-pin plug or coil form. 1 3/8" dia. x 1 1/6" high.
No. PS-477 $ 1.00

OCTAL TUBE BASE

Use for octal plug or coil form. Can be used as connecting plug for SZ-285 and SZ-286 batteries. 1 1/4" dia. x 13/16" high.
No. PS-476 $ 1.00

PIN STRAIGHTENER

For 7 and 9 pin miniature tubes. Can be mounted to workbench or tube tester.
No. ST-8655 $ 4.90

SOVTEK 5881 TUBE RETAINER

For use in guitar amps and applications where tube is suspended upside-down in chassis.
No. SH-141 $ .92

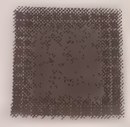
TUBE SOCKET SHELL

Use for surface mounting standard Amphenol 1 1/8" diameter tube sockets. 3/4" high, 1 3/4" mounting centers.
No. PS-126 $ .75

TUBE BOXES

Plain white boxes with dividers to cushion tube. Minimum order—10 of a size.

PART NO.	MIN. SIZE	10-99	100-up
No. SB-247	(1 x 1 x 3) 1 lb./100	ea. $ .10	$ 7.60
No. SB-254	(1 x 1 x 3 1/4) 1 lb./100	.11	8.00
	GT SIZE		
No. SB-248	(1 5/16 x 1 5/16 x 3 11/16) 1.5 lbs./100	.14	11.00
	LGT SIZE		
No. SB-249	(1 5/8 x 1 5/8 x 4 15/16) 3 lbs./100	.15	12.00
	LARGER SIZES		
No. SB-251	(1 7/8 x 1 7/8 x 5 3/8) 4 lbs./100	.17	14.00
No. SB-252	(2 1/4 x 2 1/4 x 6 1/8) 5.5 lbs./100	.18	15.20
No. SB-253	(3 x 3 x 7) 7 lbs./100	.25	19.00



TUBE EGG CRATE

15" x 15" egg crates designed for storing tubes. Supplied unassembled.

PART NO.	TUBE TYPES	NUMBER OF CELLS	PRICE
SB-124	GT, Metal	121 – 1 5/16 x 2 3/4	$ 4.50
SB-125	Small ST	81 – 1 1/2 x 3	3.25
SB-126	Large ST	64 – 1 13/16 x 3 3/4	2.70
SB-127	Ctn. for above	15 x 15 x 4	1.80
SB-128	Ctn. for above	15 x 15 x 5	1.90

GERMANIUM TRANSISTORS

We are now stocking replacement germanium transistors for early transistor radios, etc. All are hermetic metal cased. Sold in packages as listed:

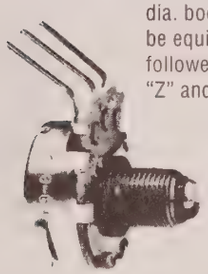
PART NO.	DESCRIPTION	PRICE
U-TRB-5	NPN–Similar to 2N193, 2N388, 2N1302, etc., for Mixer, Osc-Converter. 4/Pkg.	$ 1.29
U-TRB-6	NPN–Similar to 2N170, 2N292 (9 Volt App.) for IF, RF, Converter, Audio. 2/Pkg.	.95
U-TRB-7	PNP–Similar to 2N111, 2N139, 2N218, etc. (9 Volt App.) for IF converter, Audio. 2/Pkg.	.95
U-TRB-8	PNP–Similar to 2N107, 2N218, CK722, etc. (9 Volt App.) for Audio, code practice oscillators. 2/Pkg.	.95

GERMANIUM POWER TRANSISTOR

Type ECG121, 30 watt TO-3 for audio output in early auto radios.

Part No. U-ECG121 **$ 6.70**

CLAROSTAT REPLACEMENT POTS



"Pick-A-Shaft" controls take any shaft listed below. 15/16" dia. body with 3/8" x #32 mounting bushing 3/8" long. May be equipped with switches listed below. Order by No. PZ-A47 followed by resistance value and curve letter. "S" is linear. "Z" and "W" are audio taper. .5 watt.

RESISTANCE VALUES AND TAPER

1000-S	25K-S	100K-S	1 Meg-S
5000-S	25K-W	100K-Z	1 Meg-Z
10K-S	50K-S	500K-S	2 Meg S
10K-Z	50K-W	500K-Z	2 Meg Z

Specify Value **No. PZ-A47** **$ 5.95**

SWITCHES FOR ABOVE

PZ-SWE-10 SPST 3A-125V. **3.20**
PZ-SWE-20 DPST 3A-125V. **3.20**

WIREWOUND POTENTIOMETERS

Clarostat 4 watt wirewound "Pick-A-Shaft" controls, 1 23/32" dia. body with 3/8" x 32 mounting bushing. Linear Taper.

RESISTANCE VALUES

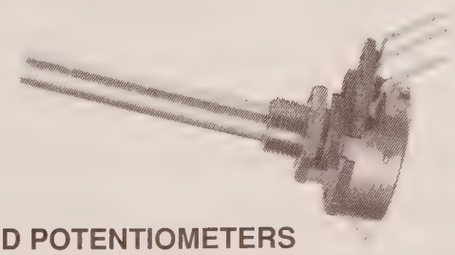
2000 ohm
5000 ohm
10,000 ohm

Specify Value **No. PZ-A58** **$ 6.95**

PLUG-IN SHAFTS FOR ABOVE

No. PZ-RS-3	Round Shaft 3" Long	
No. PZ-KSS-3	Knurled Split Shaft 3" Long	
No. PZ-FS-3	Flatted Shaft 3" Long	
No. PZ-KFS-3	Knurled Flatted Shaft 3" Long	**1.00**

NEW!



TRW TAPPED POTENTIOMETERS

Hard-to-find tapped potentiometers like those used in 30's and 40's vintage radios. 1 Meg resistance, 1/2 watt with audio taper. 3/8" x #32 mtg. bushing 3/8" long, with 1/4" dia. round shaft. 3" long.

No. PZ-355	1 Meg with tap at 250K	**$ 6.50**
No. PZ-356	1 Meg with tap at 500K	**6.50**

DIAL LAMPS

Long life general replacement lamps for dials, indicators, etc.

PART NO.	TYPE	VOLTS	AMPS	BASE	BULB	PRICE Pkg. of 10
P-40A	40	6.3	.15	Screw	T-3 1/4	**$ 2.70**
P-41A	41	2.5	.50	Screw	T-3 1/4	**2.90**
P-42A	42	3.2	.35	Screw	T-3 1/4	**3.90**
P-43A	43	2.5	.50	Bayonet	T-3 1/4	**2.90**
P-44A	44	6.3	.25	Bayonet	T-3 1/4	**2.70**
P-45A	45	2.5	.35	Bayonet	T-3 1/4	**3.70**
P-46A	46	6.3	.25	Screw	T-3 1/4	**2.90**
P-47A	47	6.3	.15	Bayonet	T-3 1/4	**2.70**
P-48A	48	2.0	.06	Screw	T-3 1/4	**3.90**
P-49A	49	2.0	.06	Bayonet	T-3 1/4	**3.70**
P-50A	50	7.5	.22	Screw	G-3 1/2	**3.90**
P-51A	51	7.5	.22	Bayonet	G-3 1/2	**2.90**
P-53A	53	14.4	.12	Bayonet	G-3 1/2	**3.20**
P-55A	55	7.0	.41	Bayonet	G-4 1/2	**3.90**
P-57A	57	14.0	.24	Bayonet	G-4 1/2	**4.90**

REPLACEMENT LAMPS FOR TV-7/U TESTERS

Hard to find fuse and "shorts test" replacement lamps for military version of Hickock tube testers.

PART NO.	TYPE	VOLTS	AMPS	BASE	BULB	PRICE
P-81	81	6.5	1.02	Bayonet	G-6	**$ .69**
P-NE45	NE45	105-125	.002	Screw	T-4 1/2	**2.60**

NEW!

FUSE-TYPE LAMPS

Fuse-type lamps as found in some American Hi-Fi components of the 1960's. 1/4" x 1 3/16".

Pkg. of 5	**No. PL-107**	(6 volts)	**$ 3.90**
Pkg. of 5	**No. PL-108**	(8 volts)	**3.90**

1/2 WATT CARBON FILM RESISTORS

5% tolerance. Stable, color-coded. Body .15" dia. by 38" long with 1 1/4" long leads.

TABLE OF VALUES

10	47	220	1.0K	4.7K	22K	100K	470K
12	56	270	1.2K	5.6K	27K	120K	560K
15	68	330	1.5K	6.8K	33K	150K	680K
18	82	390	1.8K	8.2K	39K	180K	820K
22	100	470	2.2K	10K	47K	220K	1.0M
27	120	560	2.7K	12K	56K	270K	1.8M
33	150	680	3.3K	15K	68K	330K	2.2M
39	180	820	3.9K	18K	82K	390K	3.3M

Specify Value Pkg. of 5 **No. PZ-251** **$ .39**
100 per value **No. PZ-251C** **.02 ea.**

1/2 WATT CARBON COMPOSITION RESISTORS

Allen-Bradley type, 10% tolerance.

TABLE OF VALUES

10	68	270	1.2K	8.2K	47K	330K	15M
12	82	390	1.5K	18K	56K	390K	22M
18	120	470	2.7K	22K	68K	680K	
27	150	560	3.3K	27K	120K	2.2M	
33	180	680	5.6K	30K	150K	2.7M	
47	220	820	6.8K	39K	180K	10M	

Specify Value Pkg. of 10 **No. PZ-255** **$ 1.30**

WIREWOUND POWER RESISTORS

10% Tolerance. Rectangular ceramic case with axial leads.

TABLE OF VALUES

5 WATT				10 WATT		
1	20	250	5K	1	30	250
2	30	300	10K	2	40	300
3	50	400		3	50	400
4	75	500		4	75	500
5	100	750		5	100	750
7.5	120	1K		7.5	125	1K
10	150	2K		10	150	2K
15	200	3K		20	200	3K

5W., 0.4 Sq. x .91 Lg. **No. PZ-252** **$ .35**
10W., 0.4 Sq. x 1.93 Lg. **No. PZ-253** **.45**

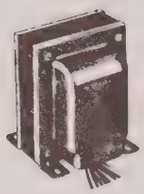
TRANSFORMERS

Horiz.

POWER TRANSFORMERS

Replacements for 1930 to 1950 AC radios and tube type equipment. 117 Volt primary, 50/60 Hz. Provided with color-coded leads.

PART NO.	MFG.	RATING			MOUNTING CENTERS–IN.	SHIPPING WT. LBS.	PRICE
PT-442	AES	125V. 15MA.	12.6V. .3A		2, U-bracket	.7	$ 8.95
PT-24R01	THORDARSON	325-0-325V, 40MA.	5.2V. 2A.	6.3V. 2A.	2 x 2 1/2, horiz.	2.6	40.82
PT-24R09U	THORDARSON	250-0-250V, 70MA.	5V. 2A.	6.3V.CT 2.5A.	2 x 2 3/16, vert.	3.4	42.48
PT-270BX	HAMMOND	275-0-275V. 50MA.	5V. 2A.	6.3V. 2A.	2 1/8 x 2 1/4, vert.	3.3	31.06
PT-261M6*	HAMMOND	215V. 150MA.		6.3V. 4A.	2 x 2, vert.	4.0	46.84
PT-24R40	THORDARSON	350-0-350V. 90MA.	5V. 2A.	6.3V.CT. 3A.	2 1/4 x 2 13/16, horiz.	4.5	59.37
PT-26R31	THORDARSON	260-0-260V. 90 MA.		6.3V. 4A.	2 1/4 x 2 7/8, horiz.	3.5	40.96
PT-272BX	HAMMOND	300-0-300V. 100MA.	5V. 2A.	6.3V. 3A.	2 1/2x 2 1/2, vert.	5.5	35.62
PT-24R40U	THORDARSON	350-0-350V. 90MA.	5V. 2A.	6.3V.CT. 3A.	2 1/4 x 2 3/8, vert.	5.5	59.37
PT-24R22U	THORDARSON	360-0-360V. 120MA.	5V. 3A.	6.3V.CT. 3.5A.	2 1/2 x 2 7/16, vert.	5.5	56.14
PT-272FX	HAMMOND	300-0-300V. 150MA.	5V.CT. 3A.	6.3V.CT. 5A.	2 1/2x 3 1/2, vert.	8.0	45.53
PT-274BX	HAMMOND	375-0-375V. 175MA.	5V.CT. 3A.	6.3V.CT. 6A.	2 11/16 x 3, vert.	8.8	49.87
PT-272JX	HAMMOND	300-0-300V. 250MA.	5V.CT. 4A.	6.3V.CT. 8A.	2 15/16 x 3, vert.	10.5	53.25
PT-278CX	HAMMOND	400-0-400V. 465MA.		6.3V.CT. 6A.	3 X 4 3/16, vert.	13.0	64.40



Vert.

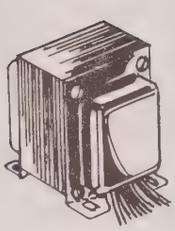
* For European radios

FILAMENT TRANSFORMERS

115 Volt Primary, 50/60 Hz. U-bracket mounting.

PART NO.	MFG.	RATING		MOUNTING CENTERS–IN.	SHIPPING WT. LBS.	PRICE
No. PT-F-1X	TRIAD	2.5V.CT.	3A.	2 3/8	.8	$10.68
No. PT-F-3X	TRIAD	2.5V.CT.	10A.	3 1/8	1.7	16.90
No. PT-165S6	HAMMOND	6.3V.CT.	10A.	2 1/2 x 2 3/4	3.4	23.84
No. PT-166L6	HAMMOND	6.3V.CT.	2A.	2 3/8	.9	13.25
No. PT-166N6	HAMMOND	6.3V.CT.	2A.	3 1/8	1.4	14.10
No. PT-21F94	THORDARSON	5.0V.CT.	3A.	2 13/16	1.7	14.68

SPECIAL POWER TRANSFORMERS WITH 2.5V. FIL. WINDINGS (120V. 60HZ PRI.)



PT-142

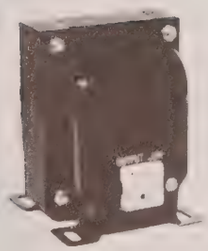
These transformers have been custom manufactured to provide the replacement needs for early 30's radios. No. PT-142 will work in most 4 and 5 tube sets while No. PT-143 will work in most 6 and 7 tube sets. Supplied with vertical mounting shells, both have the leads coming out one side so that horizontal mounting may be used (see note). PT-142 provides a separate filament winding for audio output stages but both 2.5V. windings can be paralleled for the combined current rating.

PART NO.	RATING		MOUNTING CENTERS–IN.	SHIPPING WT. LBS.	PRICE
No. PT-142	325-0-325V. 50MA.	5V. 2A., 2.5V.CT. 7.5A	2 x 2 1/4 (2 x 2 1/2)	3.5	$39.95
No. PT-143	350-0-350V. 70 - 90MA.*	5V. 3A., 2.5V. 7.5A, 2.5V.CT. 3.5A	2 5/16 x 2 1/2 (2 1/4 x 3 1/8)	5.0	49.95

*Will provide 90MA. if 5V. winding is used with 2A. rectifier.

Note: Feet for vertical mounting can be cut off to enable horizontal mounting. Mounting Centers in parentheses ( ) apply to horizontal mounting.

LINE ISOLATION TRANSFORMERS



PT-171A/B

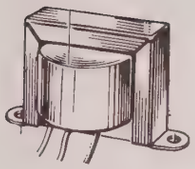
115 Volt primary, 60 Hz., 115 volt secondary.

PART NO.	MFG.	VOLT-AMP RATING	MOUNTING CENTERS-IN.	SHIPPING WT. LBS.	PRICE
No. PT-N-51X	TRIAD	35	3 1/8, U-bracket	4.5	$15.90
No. PT-169SS	HAMMOND	90	2 1/2 X 2 3/4, vert.	4.5	42.79
No. PT-169VS	HAMMOND	175	2 1/2 X 3 1/2, vert.	11.0	48.17

115 volt primary, 50/60Hz., 115 volt secondary, vertical mounting with single outlet receptacle on case. With line cord.

PART NO.	MFG.	VOLT-AMP RATING	MOUNTING CENTERS-IN	SHIPPING WT. LBS.	PRICE
No. PT-171A	HAMMOND	100	3 X 2 5/8	7.5	$51.39
No. PT-171B	HAMMOND	200	3 X 4 1/8	12.0	63.15

UNIVERSAL OUTPUT TRANSFORMERS



U-bracket

Multi-tap transformers have tables provided to choose pre-calculated impedance ratios. Secondary impedances from 1.5 to 15 ohms. Leads on primary, solder lugs on secondary. U-bracket mounting. For single or push-pull applications.

PART NO.	MFG.	OUTPUT WATTS	PRIMARY-Z OHMS	MOUNTING CENTERS-IN.	SHIPPING WT. LBS.	PRICE
No. PT-125A	HAMMOND	3	1200 TO 25,000	1 3/4	.25	**$21.66**
No. PT-291	AES	8	4000 TO 10,000	2 3/8	1.0	**12.90**
No. PT-125E	HAMMOND	15	1200 TO 25,000	3 1/8	1.5	**24.54**

AUDIO OUTPUT TRANSFORMERS

Single plate to voice coil. U-bracket mounting.

PART NO.	OUTPUT WATTS	IMPEDANCE - OHMS PRIMARY	IMPEDANCE - OHMS SECONDARY	MOUNTING CENTERS-IN.	SHIPPING WT. LBS.	PRICE
No. PT-981	2.5	2500	3.2	1 1/2	.4	**$ 3.90**
No. PT-983	3	2500	8	1 1/2	.4	**3.90**
No. PT-460	8	12,000	3/6	2 13/16	1.2	**9.80**

HIGH FIDELITY OUTPUT TRANSFORMERS

Push-pull transformers for Hi-Fi, guitar amplifiers, or P.A. system applications.

PART NO.	MFG.	OUTPUT WATTS	MATCHING IMPEDANCE–OHMS PRIMARY	MATCHING IMPEDANCE–OHMS SECONDARY	FREQUENCY RESPONSE-Hz	MOUNTING CENTERS-IN.	SHIPPING WT. LBS.	PRICE
No. PT-1608	HAMMOND	10	8,000 CT	16/8/4	50-15,000**	2 1/8 x 1 3/4, vert.	2.5	**$27.43**
No. PT-S142A	TES	15	8,000 CT*	16/8/4	7-50,000	2 x 2 7/16, vert.	3.75	**52.95**
No. PT-1620	HAMMOND	20	6,600 CT*	16/8/4	50-15,000**	2 1/8 x 2 1/2, vert.	3.75	**35.27**
No. PT-24S57	THORDARSON	35	6,600 CT	16/8/4,250/500	30-20,000	2 1/2 x 2 3/16, vert.	4.8	**61.32**
No. PT-1650K	HAMMOND	50	3,400 CT*	16/8/4	30-30,000**	2 1/2 x 3 1/4, vert.	7.0	**72.29**
No. PT-22S67	THORDARSON	50	6,000 CT	16/8	20-20,000**	2 3/4 x 3 1/16, vert.	8.0	**67.35**
No. PT-1650N	HAMMOND	60	4,300 CT*	16/8/4	30-30,000**	2 1/2 x 3 1/2, vert.	8.0	**42.25**
No. PT-1650R	HAMMOND	100	5,000 CT*	16/8/4	30-30,000**	3 x 3 1/2, vert.	12.0	**55.17**
No. PT-1650T	HAMMOND	120	1,900 CT	16/8/4	30-30,000**	3 x 4, vert.	14.0	**48.19**
No. PT-1650W	HAMMOND	280	1,900 CT	16/8/4	30-30,000**	4 1/2 x 5, vert.	28.0	**155.00**

* Screen taps are provided ** -1 db max. ref. 1KHz, others ± 3db

AUDIO INTERSTAGE TRANSFORMERS

PART NO.	DESCRIPTION	MAX. PRI. CURRENT	IMPEDANCE–OHMS PRI. TO SEC.	MOUNTING CENTERS-IN.	SHIPPING WT LBS.	PRICE
No. PT-156	Equiv. to Stancor A53-C. 1:3 ratio overall. Center tapped secondary may be used for push-pull grids.	10 MA	10,000 to 90,000	2	.4	**$ 9.95**
No. PT-157	Same as above, only with nickel core for improved fidelity.	10 MA	10,000 to 90,000	2	.4	**12.50**
No. PT-431	Coil assembly only for above (P-156). Use your own iron to preserve mechanical fit. Coil window is 1/2" x 1/2".				.2	**7.95**
No. PT-20D89	Plate to push-pull grids.	40 MA	7,000 to 15,800	2 3/8	.6	**12.95**
No. PT-20A14	Multi-purpose, center-tapped primary. Center-tapped secondary providing 1:15/1:3/1:6 ratio.	20 MA	15,000 to 135,000	2 3/8	1.0	**17.95**

FILTER CHOKES

U-bracket mounting, with leads for universal replacement.

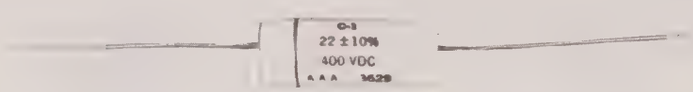
PART NO.	MFG.	RATING	RESISTANCE OHMS	MOUNTING CENTERS-IN.	SHIPPING WT. LBS.	PRICE
No. PT-155H	HAMMOND	50MA. 5 Henries	270	2	.4	**$ 7.83**
No. PT-C-3X	TRIAD	50MA. 10 Henries	500	2 3/8	.6	**9.20**
No. PT-158L	HAMMOND	75MA. 15 Henries	411	2 13/16	1.3	**14.96**
No. PT-C-7X	TRIAD	90MA. 10 Henries	270	2 13/16	1.3	**12.02**

CAPACITORS

AXIAL LEAD ELECTROLYTICS

Highest quality low leakage tubular electrolytic capacitors. Rated for 85°C operation. Tolerance—10% + 50%.

PART NO.	VALUE MFD.	VOLTAGE	SIZE DIA.-IN.	PRICE LG.-IN.	1-49	50-up
C-10-50	10	50	.25	.49	$ .43	$ .34
C-22-50	22	50	.25	.63	.52	.42
C-33-50	33	50	.32	.63	.52	.42
C-47-50	47	50	.32	.63	.60	.48
C-4.7-160	4.7	160	.31	.63	.97	.79
C-10-160	10	160	.40	.79	.71	.57
C-22-160	22	160	.49	.98	.88	.70
C-33-160	33	160	.49	1.18	1.24	.99
C-47-160	47	160	.49	1.18	1.34	1.07
C-100-160	100	160	.63	1.18	2.10	1.68
C-200-300	200	300	.88	3.12	4.25	3.40
C-4.7-350	4.7	350	.40	.98	.75	.60
C-10-350	10	350	.49	1.18	.90	.72
C-22-350	22	350	.63	1.18	1.49	1.19
C-33-350	33	350	.63	1.57	1.78	1.42
C-47-350	47	350	.71	1.58	1.89	1.51
C-4.7-450	4.7	450	.49	1.18	1.10	.89
C-10-450	10	450	.63	1.18	1.16	.93
C-22-450	22	450	.71	1.57	1.75	1.40
C-33-450	33	450	.88	1.57	2.43	1.95
C-47-450	47	450	.88	1.96	3.38	2.70
C-100-450	100	450	.98	2.36	3.98	3.18
C-10-500	10	500	.63	1.18	1.98	1.58
C-22-500	22	500	.63	1.57	2.48	1.98



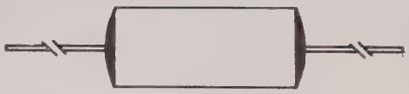
EARLY STYLE CERAMIC TUBE—AXIAL LEAD

PART NO.	VALUE MFD.	VOLTAGE	SIZE-IN.	PRICE
CC-.001-600	.001	600	3/8 x 1 1/8	$ .35
CC-.0039-600	.0039	600	5/16 x 1	.35
CC-.022-600	.022	600	7/16 x 1 1/4	.45
CC-.0039-1000	.0039	1000	3/8 x 1 1/8	.40
CC-.047-1000	.047	1000	1/2 x 1 5/8	.50
CC-.001-1600	.001	1600	5/16 x 1	.40

MULTISECTION TUBULAR ELECTROLYTICS

Fresh stock–no leakage. Specify capacity and voltage when ordering.

CAPACITY/VOLTAGE	SIZE-IN.	PRICE
33/160, 47/160	3/4 x 2 3/4	$3.00
47/160, 47/160	3/4 x 2 3/4	3.69
47/160, 80/160	3/4 x 3 1/4	3.95
33/160, 33/160, 47/160	3/4 x 3	4.40
33/160, 47/160, 22/25	3/4 x 2 3/4	3.79
10/450, 10/450	3/4 x 2 1/2	3.30



METALIZED FILM TUBULAR CAPACITORS

Tolerance ±10%, axial leads.

400 VOLT

PART NO.	VALUE MFD.	DIA.-IN.	LG.-IN.	PRICE 1-49	PRICE 50-up
CT-.01-400	.01	.22	.55	$ .30	$ .24
CT-.015-400	.015	.22	.55	.30	.24
CT-.022-400	.022	.22	.55	.30	.24
CT-.033-400	.033	.24	.55	.30	.24
CT-.047-400	.047	.28	.55	.35	.28
CT-.068-400	.068	.26	.75	.35	.28
CT-.1-400	.1	.30	.75	.40	.32
CT-.15-400	.15	.33	.75	.45	.36
CT-.22-400	.22	.39	.75	.50	.40
CT-.33-400	.33	.39	.98	.52	.42
CT-.47-400	.47	.45	.98	.55	.44
CT-.68-400	.68	.51	1.26	.80	.64
CT-1.0-400	1.0	.59	1.26	.90	.72
CT-2.2-400	2.2	.79	1.26	1.75	1.40

630 VOLT

PART NO.	VALUE MFD.	DIA.-IN.	LG.-IN.	PRICE 1-49	PRICE 50-up
CT-.001-630	.001	.18	.39	$ .38	$ .30
CT-.0015-630	.0015	.18	.39	.38	.30
CT-.0022-630	.0022	.18	.39	.38	.30
CT-.0033-630	.0033	.18	.39	.38	.30
CT-.0047-630	.0047	.18	.39	.38	.30
CT-.0068-630	.0068	.18	.39	.38	.30
CT-.01-630	.01	.24	.55	.35	.28
CT-.015-630	.015	.26	.55	.35	.28
CT-.022-630	.022	.26	.55	.37	.30
CT-.033-630	.033	.26	.75	.39	.31
CT-.047-630	.047	.30	.75	.44	.35
CT-.068-630	.068	.33	.75	.48	.38
CT-.1-630	.1	.39	.75	.55	.44
CT-.15-630	.15	.43	.75	.60	.48
CT-.22-630	.22	.43	.98	.65	.52
CT-.33-630	.33	.47	.98	.75	.60
CT-.47-630	.47	.51	1.26	.85	.68
CT-.68-630	.68	.59	1.26	.98	.78
CT-1.0-630	1.0	.67	1.26	1.25	1.00
CT-1.5-630	1.5	.75	1.26	1.70	1.36
CT-2.2-630	2.2	.79	1.85	2.20	1.76

SILVER MICA CAPACITORS

500 volt, 5% tolerance. Dipped epoxy coating. Specify capacity and voltage when ordering.

VALUE PF	PRICE 1-49	PRICE 50-up	VALUE PF	PRICE 1-49	PRICE 50-up
68	$ .54	$ .43	390	$ .99	$ .79
82	.54	.43	500	1.20	.96
100	.54	.43	680	1.55	1.24
150	.60	.48	820	1.69	1.35
250	.66	.53	1000	1.69	1.35

MISC. HIGH VOLTAGE CAPACITORS

PART NO.	VALUE MFD.	VOLTAGE	SIZE-IN.	TYPE	PRICE
CC-.001-6000	.001	6000	3/16 x 3/8	disc	$ .96
CC-.0047-6000	.0047	6000	1/4 x 3/4	disc	2.25
C-.0047-6000	.0047	6000	3/8 x 1 9/16	tubular	4.90
C-.047-6000	.047	6000	11/16 x 2 1/2	tubular	6.90

NEW MANUFACTURE MALLORY FP-TYPE CAPACITORS

Twist mount cans, fresh stock. Specify capacity and voltage when ordering.

CAPACITY/VOLTAGE	SIZE-IN.	PRICE
20/450, 20/450	1 x 2	$ 8.95
100/500, 100/500	1 3/8 x 4	17.95
20/450, 20/450, 20/25	1 x 2 1/2	11.95
40/500, 20/500, 20/500	1 x 3 1/2	12.95
20/475, 20/475, 20/475, 20/475	1 3/8 x 2	11.95
40/450, 40/450, 20/450, 20/450	1 3/8 x 3 1/2	19.90
40/500, 20/500, 20/500, 20/500	1 3/8 x 2 1/2	14.75

ELECTROLYTIC CAN CAPACITOR SPECIALS

New, old stock.. Specify capacity and voltage when ordering.

CAPACITY/VOLTAGE	TYPE	SIZE-IN.	PRICE
320/350	twist mt.	1 3/8 x 3	$ 6.00
50/150, 30/150	FP, PC mt.	1 x 2	2.00
220/150, 70/150	FP, PC mt.	1 x 2 7/8	2.00
50/500, 50/500	clamp mt.	1 3/8 x 3	7.90
300/150, 100/150, 80/150	twist mt.	1 3/8 x 2 1/2	2.50
300/175, 200/150, 10/150, 100/150	FP, PC mt.	1 3/8 x 4	2.50

MOUNTING CLAMP

Mallory clamp for mounting 1 3/8" dia. capacitor cans in vertical position. Supplied with #6-32 screw and nut.

No. SH-122 **$.99**

TWIST-MOUNT CAN INSULATOR

Phenolic insulator for mounting FP type can capacitors.

For 1 3/8" dia. can **No. SH-120** **$ .45**

For 1" dia. can **No. SH-121** **.45**

VARIABLE CAPACITORS

Single section 365 pf, 1 3/16" long frame. 1/4" dia. shaft 9/16" long, CCW rotation. 3 oz.

No. CV-231 **$ 7.95**

Two section 155 pf and 265 pf with trimmers. 1 11/16" long frame. 1/4" dia. flatted shaft, 5/8" long. CCW rotation. 4 oz.

No. CV-356 **$ 3.50**

Two section 200 pf and 90 pf, 1 1/8" long frame. 1/4" dia. shaft 3/8" long, CW rotation. 6 oz.

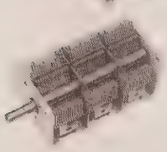
No. CV-254 **$ 3.25**

Two section 140 pf and 290 pf, with trimmers, 1 5/8" long frame. 1/4" dia. flatted shaft 3/8" long, CCW rotation. 6 oz.

No. CV-351 **$ 4.85**

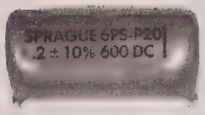
Three section 400 pf, 200 pf and 90 pf with trimmers. 2 3/16" long frame. 3/8" dia. shaft, 5/8" long. CCW rotation. 7 oz.

No. CV-357 **$ 4.85**



Three section 500 pf, 3 3/16" long frame. 1/4" dia. shaft, 11/16" long. CCW rotation. 9 oz.

No. CV-264 **$ 8.95**



SPRAGUE "ORANGE DROP" CAPACITORS

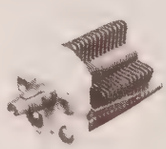
Rated for 85° C operation. ± 10% tolerance. Radial leads.

600 Volt—Type PS Polyester Film

PART NO.	VALUE MFD.	SIZE DIA-IN.	SIZE LG-IN.	PRICE 1-49	PRICE 50-UP
CS-.0012-600	.0012	.33	.70	$ .48	$ .29
CS-.0015-600	.0015	.33	.70	.48	.29
CS-.0018-600	.0018	.33	.70	.48	.29
CS-.002-600	.002	.33	.70	.48	.29
CS-.0025-600	.0025	.35	.70	.48	.29
CS-.0027-600	.0027	.35	.70	.48	.29
CS-.003-600	.003	.35	.70	.48	.29
CS-.0033-600	.0033	.35	.70	.48	.29
CS-.004-600	.004	.38	.70	.53	.32
CS-.005-600	.005	.38	.70	.53	.32
CS-.0056-600	.0056	.40	.70	.53	.32
CS-.006-600	.006	.40	.70	.53	.32
CS-.0068-600	.0068	.40	.70	.53	.32
CS-.0075-600	.0075	.40	.70	.59	.35
CS-.008-600	.008	.40	.90	.59	.35
CS-.0082-600	.0082	.40	.90	.59	.35
CS-.01-600	.01	.40	.90	.59	.35
CS-.015-600	.015	.40	.90	.67	.40
CS-.02-600	.02	.45	.90	.72	.43
CS-.025-600	.025	.45	.90	1.08	.65
CS-.03-600	.03	.45	1.20	1.08	.65
CS-.033-600	.033	.45	1.20	1.08	.65
CS-.04-600	.04	.55	1.20	1.08	.65
CS-.05-600	.05	.55	1.20	1.16	.70
CS-.056-600	.056	.60	1.20	1.16	.70
CS-.06-600	.06	.60	1.20	1.16	.70
CS-.068-600	.068	.60	1.20	1.16	.70
CS-.075-600	.075	.60	1.20	1.27	.76
CS-.082-600	.082	.65	1.20	1.27	.76
CS-.1-600	.1	.65	1.20	1.27	.76
CS-.15-600	.15	.70	1.60	1.79	1.07
CS-.2-600	.2	.80	1.60	2.49	1.49
CS-.25-600	.25	.80	1.60	2.69	1.61
CS-.33-600	.33	.89	1.81	3.32	1.99

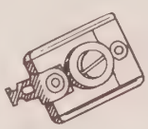
1600 Volt—Type PS Polypropylene Film

PART NO.	VALUE MFD.	SIZE DIA-IN.	SIZE LG-IN.	PRICE
CS-.001-1600	.001	.50	1.30	$ .65
CS-.002-1600	.002	.50	1.30	.65
CS-.003-1600	.003	.50	1.30	.65
CS-.0039-1600	.0039	.50	1.30	.65
CS-.005-1600	.005	.50	1.30	.65
CS-.006-1600	.006	.55	1.30	.75
CS-.0068-1600	.0068	.55	1.30	.75
CS-.01-1600	.01	.60	1.30	1.00
CS-.02-1600	.02	.65	1.70	1.40
CS-.03-1600	.03	.75	1.70	1.50
CS-.05-1600	.05	.85	1.70	2.00



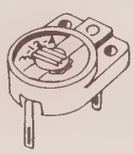
APC TYPE VARIABLE CAPACITORS

PART NO.	DESCRIPTION	PRICE
CV-332	4-20 pf, hex adjust	$1.50
CV-325	4-50 pf, screwdriver adjust	1.90
CV-333	6-100 pf, screwdriver adjust.	1.75
CV-334	10-220 pf, hex adjust.	1.90



TRIMMER CAPACITORS

PART NO.	CAPACITY	PRICE
CV-263	40 to 500PF	$ .90
CV-329 (with 5/8" long shaft)	20 to 300 PF	.90
CV-405	3 to 12 PF	.70
CV-225	10 to 120 PF	.90



POWER SUPPLIES & KITS

ONE TUBE REGENERATIVE RADIO KIT

Operates just like the one tubers of the early 1920's! The kit uses a 1G4 tube and tunes the standard broadcast band. A 6 x 7 1/2" white pine board is provided along with the tube, tuning condenser, regeneration control, coil form, wire, hardware, and easy to follow instructions. All that is needed for construction is a screwdriver and soldering iron. Operates from a 1 1/2V. flashlight "C" battery and a No. 415 45V. battery (not included, see below to order). No. PA-466 High Impedance headset (on page 26) is recommended for output.

No. K-201 **$21.95**

NEW!

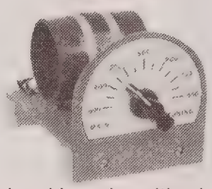
ANTENNA TUNER KIT

Antenna tuner covers the broadcast band through 30 Mhz. Toggle switch changes variable capacitor from parallel to series connection with coil. Coil is tapped to change inductance. Kit includes pre-drilled base and front panel board, air variable capacitor, coil form, knob, switch, hook-up wire and hardware. 3 1/2" x 5" x 3 1/2", 1 lb.

No. K-405 **$20.65**

NEW!

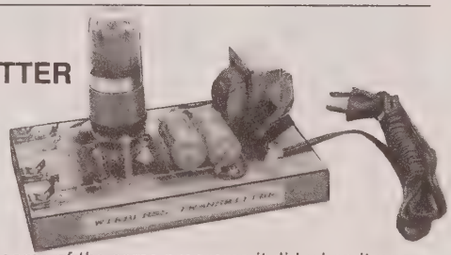
REJECTER TRAP KIT



Very useful for crystal radios, this trap can be placed in series with a long-wire antenna to reject powerful broadcast band stations that swamp weaker signals. Kit includes pre-drilled base and front panel board, air variable capacitor, coil form, knob, hook-up wire and hardware. 3 1/2" x 5" x 3 1/2", 1 lb.

No. K-404 **$15.95**

WIRELESS TRANSMITTER KIT



Now your antique radio can play some of the same programs it did when it was new! With your cassette tape player, phonograph or high output microphone, this one-tube transmitter becomes a miniature AM broadcasting station, patterned after the 1939 Zenith model S-7000 Wireless Record Player. Assemble on a 4 x 6 1/2" breadboard, all parts and instructions included. 2 lbs.

No. K-488 **$19.95**

SOLID STATE VIBRATOR REPLACEMENTS

New manufacture solid-state replacements for 6 volt (Mallory 4-4) and 12 volt (Mallory 12-4) 4 pin vibrators. Each type works in both 6 and 12 volt circuits and makes no noise. 1 1/4" dia. x 2 3/8" high.

Negative grd. chassis	**PM-443A**	**$18.50**
Positive grd. chassis	**PM-444A**	**22.90**
3 Pin Neg. grd. only	**PM-901**	**18.50**

Note: Original general purpose 3 and 4 pin vibrators when available are $18.50 each. Specify voltage when ordering.

POWER SUPPLY KIT FOR EARLY BATTERY RADIOS

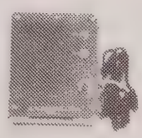
SPECIFICATIONS:

INPUT: 120V., 60 Hz.
"A" OUTPUT: Adjustable and regulated 1.5 to 7.5 volts, 1.5 Amps.
"B" OUTPUT: 22, 45, 67, 90, and 135 volts regulated up to 50 mA.
"C" OUTPUT: Adjustable, 0 to 22 volts. Regulated.

Kit includes transformer, rectifiers, capacitors, resistors, transistors, regulator I.C. and all hardware and white pine board. Easy to follow instructions for assembly. You need only a screwdriver and soldering iron. 3 lbs.

No. K-101A **$44.95**

POWER SUPPLIES FOR EARLY BATTERY RADIOS



"A" Supply. Adapted specifically for A battery replacement by Antique Electronic Supply. Output 6 volts regulated ± 1% up to 3 Amps. Supply up to 12 01A's. Adjustable 4 to 7 volts. Compact 4" x 5" x 2". Can be mounted inside your radio cabinet. With AC cord and built-in power switch. 3 lbs.

No. SZ-116 **$65.00**

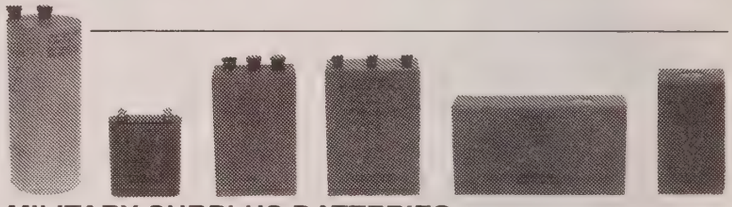
"B" and "C" Supply. 100 MA rating between -22V. and +135V. B voltages +22, +45, +67, +90, and +135V. can supply 50 MA. C voltages are -3, -4.5, -9 and -22V. Matches "A" supply above. Has own AC cord and built-in power switch. 2.5 lbs.

No. SZ-117 **$84.95**

EVEREADY BATTERIES

The following Eveready batteries are useful for powering portable radios like the Zenith Transoceanic, subminiature tube radios, and early transistor radios. The SZ-415 is used in our K-201 Regenerative Radio Kit.

EVEREADY NO.	VOLTAGE	SIZE-IN.	PRICE
SZ-735	1 1/2	2 5/8 x 2 5/8 x 4 3/8	**$ 6.75**
SZ-276	9	2.56 x 2.03 x 3.16	**9.95**
SZ-412	22 1/2	1.05 x .63 x 1.80	**5.80**
SZ-415	45	1.05 x .63 x 3.69	**8.65**
SZ-416	67 1/2	1.25 x .94 x 3.38	**11.25**
SZ-455	45	2.66 x 1 x 3.69	**14.35**
SZ-467	67 1/2	2.81 x 1.38 x 3.71	**17.40**
SZ-490	90	3.70 x 1.25 x 3.50	**24.95**



MILITARY SURPLUS BATTERIES

New, old stock military batteries. All have knurled nut terminals, excepts SZ-285 and SZ-286 which take octal plugs.

STOCK NO.	VOLTAGE	SIZE-INCHES	PRICE
SZ-281	1 1/2	2 5/8 x 6	**$3.90**
SZ-282	4 1/2	2 3/8 x 3/4 x 2 5/8	**5.00**
SZ-283	22 1/2, 45	2 7/8 x 1 3/4 x 4 1/2	**5.90**
SZ-284	22 1/2, 45	4 1/2 x 2 1/2 x 6	**8.50**
SZ-285	22 1/2, 45, 67 1/2, 90	7 5/8 x 2 1/4 x 4	**8.00**
SZ-286	1 1/2, 3, 4 1/2, 6	2 1/2 x 2 1/2 x 4 5/8	**3.50**

BATTERY CONNECTORS

Snap connectors for the Eveready battery No. 276, 455, and 467. Contains one set of male and female connectors.

No. SH-153 **$ .58**

REPRODUCTION RADIO KNOBS

Reproduction molded plastic knobs with set screws

ZENITH

1 3/4" dia., 5/16" dia. shaft, ivory, tuning knob

No. PK-189 **$ 5.00**

1" dia., 1/8" dia. shaft, ivory

No. PK-190 **5.00**

1 3/8" dia., 1/4" dia. shaft, walnut finish

No. PK-193 **6.50**

1 1/16" dia., 1/4" dia. shaft, walnut finish

No. PK-194 **6.00**

1 1/16" dia., with pointer, 1/4" dia. shaft, walnut finish

No. PK-195 **6.00**

1 1/8" dia., 1/4" dia. shaft, walnut finish

No. PK-196 **6.00**

1 3/8" dia., 1/4" dia. shaft, walnut finish

No. PK-204 **6.50**

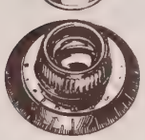
ATWATER KENT

1 3/8" dia., brown

No. PK-982 **$ 4.50**

1 5/8" dia., brown

No. PK-983 **4.50**



3 1/8" dia., brown with white engraving

No. PK-984 **6.50**

DIAL REPRODUCTION MATERIAL

Translucent tan color plastic sheet, can be cut with scissors. Ideal for making replacement Philco or other dials. 8" x 10" sheet, .016" thick

No. SM-190 **$ 6.75**

LAMP HOOD FOR RADIOLA 18

A reproduction of the dial light hood used on the Radiola 18. These are precision cast in pewter and brass plated and "antiqued" to look just like the originals.

No. PD-157 **$ 6.95**

PHILCO RADIO DIALS

PD-27-5031

PD-27-5100

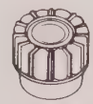
PD-27-5168

PD-27-5210

Reproductions of early 30's Philco dials used in models 33B, 37-84, 84B and 93B. Light brown translucent plastic, with black lettering.

Each $ 9.95

PHILCO



Molded plastic knob with set screw to fit 1/4" shaft.

"Rosette" knob – Used on 1931-1932 Philco cathedrals

No. PK-175	1 1/4" dia. tuning knob, brown	**$ 4.50**
No. PK-176	7/8" dia. brown	**4.50**
No. PK-177	11/15" dia. skirt, 7/16" dia. at front	**4.50**

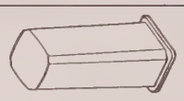
Hex-shaped knob – Used on 1933-1934 Philcos.

No. PK-178	1" dia., tuning knob, black	**4.50**
No. PK-179	13/16" dia., black	**4.50**

Mid-thirties Philco Knobs—Brown push-on knob for 1/4" flatted shaft.

No. PK-181	1 1/8" dia.	**4.75**
No. PK-185	1 1/8" dia. Inner knob for concentric tuning	**4.80**
No. PK-186	1 3/8" dia. Outer knob for concentric tuning	**4.90**
No. PK-209	1/16" dia. knob with pointer, 5/16" long, 1/2" dia. neck to extend into cabinet	**4.50**

PHILCO PUSHBUTTONS



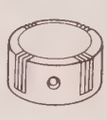
Reproductions of the wine-colored push-buttons used for station presets on 40's vintage Philcos. Buttons measure 7/16" x 7/16" across front surface and come in 2 lengths. Back of buttons are slotted to fit onto 3/16" switch actuator.

No. PK-411	3/4" long	**$ 1.75**
No. PK-412	1 1/4" long	**1.75**

RCA

1 3/8" dia., 1/4" dia. shaft, brown

No. PK-197 **$ 4.50**



GENERIC REPLACEMENT KNOBS

Late thirties style radio knob, injection molded in brown plastic. 1" dia., fits 1/4" shaft, with set screw.

No. PK-981 **$ 2.45**

WOOD KNOBS

An exact reproduction of an early wood knob commonly found on many radios from 1928-1934. Knob is 1" diameter and 3/4" deep, with metal insert and set screw to fit on 1/4" diameter shaft. Finished in walnut.

No. PK-903 **$ 3.50**

Similar to above except different style with 1 1/8" skirt at base of knob. Available in both walnut and mahogany finish.

No. PK-971	Walnut	**$ 3.25**
No. PK-972	Mahogany	**3.25**

ZENITH DIAL GLASS

A reproduction of the round convex glass that covered the tuning dial on middle and late 30's Zeniths. 1/2 lbs.

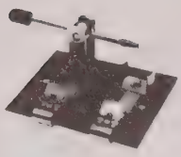
8 1/2" diameter **No. PD-272** **$ 7.50**

STATION CALL LETTER TABS

Reproduction paper station inserts like used on Philco and other late 30's and 40's vintage radios with push-button tuning. Over 300 stations provided with 3/16" high letters in translucent ivory color on black background. Trim to size to fit various models.

No. PD-130 **$ 4.95**

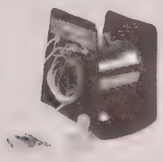
CRYSTAL SETS AND PARTS



CRYSTAL DETECTOR STAND

Old-time crystal detector stand produced by A.E.S. comes complete with cat's whisker, sliding rod and ball assembly, holder for galena crystal, plastic base, and fahnestock clips. Base measures 1 3/4" x 2 1/4". (Galena crystal not included. See below.)

No. PM-160 $ 6.95



BEGINNERS CRYSTAL RADIO KIT

Crystal radio kit is ideal for the beginning radio hobbyist. Comes complete with tuning coil, slider, germanium diode and earphone.

No. K-401 $ 8.95

GALENA CRYSTALS

Mounted Galena Crystals, like those used in early crystal detectors. Ideal for PM-160 detector.

No. PQ-111 $ 2.00

CAT'S WHISKERS

Similar to the Philmore cat's whiskers and others. Made of phosphor bronze. Shown actual size.

No. PH-415 3/$1.30

CRYSTAL COVER

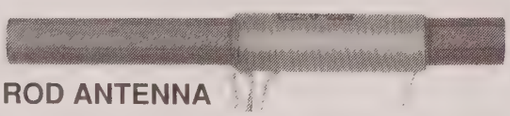
Glass crystal cover for Philmore and other crystal sets. 1" O.D. by 1 9/16" high.

No. PD-125 $ 7.50

PLUG-IN COIL FORMS

Wind your own coils with these brown plastic plug-in coil forms. 2 5/16" x 1/" dia. Standard 5-pin base.

No. PC-211 $ 3.90



FERRITE ROD ANTENNA

Ferrite rod "loop stick" antenna. Add 160pf capacitance to tune broadcast band. 7/16" dia. x 3 15/16" long.

No. PC-196 $ 3.80

FERRITE ROD

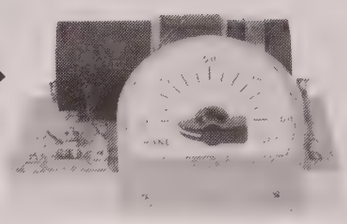
Ideal for making "loop stick" antennas and high Q crystal set coils. Type 61 material, .3/8" dia. by 4" long. Al approx. 500 uHenries for 100 turns.

No. PC-187 $ 2.60

CRYSTAL DIODE

Point contact germanium diode, ideal for crystal radio detectors.

1N34A **No. PQ-972 $ .17**



SHORT WAVE CRYSTAL RADIO KIT

Tune in world-wide signals from 3.0 to 14 Mhz on a crystal radio! Kit includes pre-drilled base and front panel board, air variable capacitor, germanium diode, coil form, knob, hook-up wire and hardware. 4 1/2" x 6 1/2 " x 3 1/2", 1 lb. (Antenna wire and earphone not included.)

No. K-402 $20.65

TAPPED COIL CRYSTAL RADIO KIT

Build a working crystal radio with great sensitivity and selectivity across the broadcast band. Kit includes pre-drilled base and front panel board, air variable capacitor, germanium diode, coil form, knob, hook-up wire and hardware. 4 1/2" x 6 1/2 " x 3 1/2", 1 lb. (Antenna and earphone not included.)

No. K-403 $20.65

MINI-CATHEDRAL CRYSTAL RADIO KIT

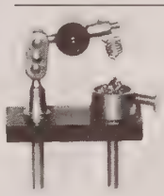
Kit includes cathedral shaped wood chassis cabinet, self-stick dial plate label for front panel, miniature variable tuning capacitor, ferrite rod antenna coil, germanium diode, crystal earphone, tuning knob, hook-up wire, all hardware and instructions. 6" high x 6" wide x 2" deep. 1 lb.

No. KY-404 $13.95

WORLD WAR II FOXHOLE RADIO KIT

Build an AM receiver using only a razor blade, pencil lead, coil and earphone! Contains all necessary parts, base and instruction book.

No. KY-405 $ 9.95



N.O.S. CRYSTAL DETECTOR

Early vintage high quality crystal detector assembly from Italy. Includes cat's whisker, galena crystal and stand with two 4 mm. dia. plugs on 2 cm. centers. 4 oz.

No. PM-165 $15.00

BLACK PANEL MATERIAL

Black Lucite panels closely resemble "Bakelite" panels used on early battery radios. Glossy finish, 1/4" thick. Can be difficult to machine.

No. SM-710	8 x 12"	**$ 6.75**
No. SM-710L	8 x 24"	**13.50**

CRYSTAL EARPHONE

High impedance crystal earphone is very sensitive and works great with crystal radios. Comes with 3 ft. cord and miniature (3.5mm) plug.

No. PA-480 $ 2.29

ORDER FORM

ANTIQUE ELECTRONIC SUPPLY

P.O. Box 27468 • Tempe, AZ 85285-7468 • U.S.A. • (602) 820-5411 • FAX (602) 820-4643

DATE _____ PURCHASE ORDER NO. _____

MAILING ADDRESS:

Name _____
Address _____
City _____ State _____ Zip _____
Country _____
Phone ( ) _____ Fax ( ) _____

SHIPPING ADDRESS:

Name _____
Address _____
City _____ State _____ Zip _____
Country _____
Phone ( ) _____ Fax ( ) _____

PART NO.	QTY	DESCRIPTION	UNIT PRICE	AMOUNT

SPECIAL INSTRUCTIONS

Method of Shipment (if other than UPS) _____
Back order out-of-stock items? ☐ Yes ☐ No

METHOD OF PAYMENT

☐ CREDIT CARD _____ CARD NUMBER

EXP. DATE _____

☐ C.O.D. _____ SIGNATURE

☐ Check/money order

MINIMUM ORDER $10.00

TOTAL FOR GOODS _____
SALES TAX (AZ Customers) _____
HANDLING CHARGE 2.00
SHIPPING CHARGES _____
TOTAL _____

ORDERING INFORMATION

Phone orders will be accepted from 7:00 A.M. to 5:00 P.M. (MT) Monday through Friday and 8:00 A.M. to 1:00 P.M. Saturdays. We accept MasterCard, Visa, and American Express. Please give us the name listed on the card, the complete card number, and the expiration date, either by phone or by mail. You may also mail a check or money order with your order. We can ship C.O.D. for an additional $4.50 charge.

Fax orders are accepted anytime, 24 hours a day. Unless specifically requested, fax orders will be filled and shipped without acknowledgement. Our domestic toll-free fax number is (800) 706-6789.

Prices shown are F.O.B. Tempe, AZ, and do not include sales or local taxes, and are subject to change or withdrawal without notice. Minimum order is $10.00. Add $2.00 for handling on each order. Refer to the chart below for shipping charges.

SHIPPING CHARGES

We ship by U.P.S. ground, unless you specify otherwise. To figure ground shipping charges, use the chart below to find the state you live in. Then estimate the total weight of your order and locate the corresponding shipping charge on the chart. For businesses, shipping charges are slightly less.

U.P.S. Next Day Air, 2nd Day Air and other types of priority delivery are available upon request. These orders will be shipped the same day received, **if phoned or faxed in by noon (MT).**

STATE ➧ WEIGHT ➧	AZ	NM	CO UT NV CA	MT KS NE OK TX WY ID	MS LA IA AR MN OR SD WA ND MO IL	WV KY NC IN SC OH GA MI FL WI AL TN	MA NY RI PA NH DE ME MD VT VA CT NJ	AK PR HI *Airmail*	CANADA *Airmail*
0-1 lb.	$2.95	$3.10	$3.34	$3.43	$3.52	$3.60	$3.67	$2.90	$3.12
2-3 lbs.	3.07	3.31	3.82	3.98	4.25	4.36	4.69	4.10	5.20
4-6 lbs.	3.30	3.60	4.03	4.24	4.57	4.78	5.21	5.45	9.20
7-9 lbs.	3.63	3.82	4.22	4.44	5.00	5.40	5.97	10.75	13.40
10-14 lbs.	4.03	4.22	4.55	5.07	5.87	6.75	7.73	14.85	19.00
15-20 lbs.	4.49	5.11	5.51	6.45	7.73	9.13	10.57	20.60	26.70
21-26 lbs.	5.27	6.00	6.60	7.86	9.62	11.45	13.39	26.88	35.10
27-32 lbs.	5.89	6.89	7.77	9.35	11.55	13.83	16.27	32.08	42.10
33-39 lbs.	6.50	7.87	8.99	10.92	13.56	16.33	19.28	39.90	52.60
40-50 lbs.	7.41	9.34	10.93	13.37	16.73	20.28	24.01	49.30	57.40

INTERNATIONAL ORDERS

We accept orders from outside of the United States, provided they meet a $25.00 minimum. Payment must be in U.S. funds, either by credit card (see above), bank draft or International Money Order. Wire transfers can be accepted for a $15.00 fee. We cannot ship C.O.D. outside of the United States. Orders will be shipped by either Air Parcel Post or Surface Parcel Post, unless other arrangements are made. Please specify which mode of shipment you prefer.

OUT-OF-STOCK ITEMS

While we endeavor to stock what we catalog, the fact that we carry many obsolete, hard-to-find and custom manufactured items makes availability unstable. If an ordered item is not in stock and we expect to have it within 30 days, it will be back-ordered, unless you request otherwise, and so noted on your invoice. It will be shipped and invoiced separately when available. Shipping/handling charges will be adjusted so that you are not penalized by the additional cost of making two shipments.

If the out-of-stock item is no longer available, or we cannot insure availability within a reasonable period, it will be cancelled from the order, and so noted on the invoice.

MERCHANDISE RETURNS

OUR GUARANTEE: All items in our catalog are 100% guaranteed to meet your satisfaction or they may be returned within 10 days for exchange or credit. Tubes are guaranteed for 90 days, except for breakage or when not operated within manufacturers specified ratings.

Should it become necessary to return merchandise for exchange or credit, please write or call for a Return Authorization number first. The R.A. number must be placed on the outside of the package being returned, and on all correspondence, in order to assure that credit is given. We reserve the right to charge a 10% restocking fee where no evidence of product failure exists.

FOLD HERE

FOLD HERE

FOLD HERE

Fold and Tear on Dotted Line
Before Mailing

Place
Stamp
Here

ANTIQUE ELECTRONIC SUPPLY

P.O. BOX 27468

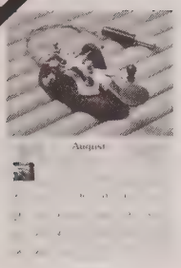
Tempe, Arizona USA 85285-7468

Be sure to:

- **Sign and enclose your check, or complete charge card information.**
- **Print your name, address and zip clearly.**
- **Print part numbers and product description clearly.** ***Thank you for your order.***

GIFTS & NOVELTIES

NEW!

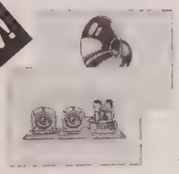


CQ RADIO CLASSICS CALENDAR

15 month 1995/96 calendar features beautiful 9" x 12" full-color pictures of classic communications receivers and related parts for each month. Dates for Hamfests and other activities nationwide are highlighted on the calendar.

No. B-667 **$ 9.95**

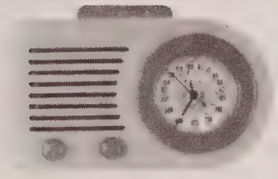
NEW!



ANTIQUE RADIO GREETING CARDS

Greeting cards are 4 1/2" x 6" folded, with envelope. Has radio pictures on 2 sides of card. 12 cards per pack.

Philco 90 cathedral	**No. G-810**	**$ 5.00**
Atwater Kent breadboard	**No. G-811**	**5.00**



FADA BULLET WALL CLOCK

Actual size reproduction of a FADA 1000 radio face houses a clock in place of the radio dial. Hand-cast in realistic imitation catalin plastic. No. G-124 is yellow with red trim, and G-124M is maroon with yellow trim. Uses one AA battery (not included). 10 1/2" x 6 1/2" x 1 1/8". 1 1/2 lbs.

Yellow/Red	**No. G-124**	**$49.95**
Maroon/Yellow	**No. G-124M**	**$49.95**

NIPPER DOG FIGURINES

A replica of the famous RCA dog listening to "His Master's Voice." Molded from the highest quality ceramics with hand-painted facial features.

No. G-744	3" high	**$ 4.95**
No. G-722F	6 1/2" high	**13.95**
No. G-746F	9" high	**36.25**
No. G-747F	12" high	**47.95**

GIFT CERTIFICATES

Having trouble deciding what to buy for that collector friend? AES gift certificates are available in any amount over $20.00, come in attractive gift envelopes and are good for 1 year from date of issuance.

No. I-200

NEW!

"BLAST FROM THE PAST" NOSTALGIA RADIO CASSETTES

Relive the magic of an era when radio was "king." These golden age performances will capture your imagination and walk you down memory lane. Each 6-cassette pack contains approximately 6 hours of original, unedited programming on high quality cassette tapes.

Comedy 1 - Abbot & Costello, Jack Benny, Fred Allen and others.
No. B-066 **$16.95**

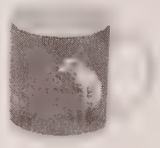
Thriller - Escape, War of the Worlds, Unsolved Mysteries and others.
No. B-068 **$16.95**

I Love a Mystery - The Thing That Cries In The Night, Bury Your Hero Arizona.
No. B-070 **$16.95**

ZENITH POSTER

Large 25 x 38" 2-color poster is high-quality reprint of 1936 Zenith advertisement picturing 21 radios, including the 25-tube Stratosphere.

No. B-630 **$16.95**



NIPPER MUG

Drinking mug with the famous "His Master's Voice" picture on side. 12 oz.

No. G-435 **$ 6.95**

PHILCO CATHEDRAL MUG

Drinking mug features Philco 90 "cathedral" radio, with both front and back view of radio pictured on cup. 12 oz.

No. G-436 **$ 7.95**

DISPLAY TUBE BASE

Hardwood ring, 2" dia. by 3/4" high, for displaying tubes. Unfinished. 12 oz./doz.

With 25/32" dia. hole for slip fit on 4 prong bases	**No. G-122**	**doz/$6.00**
With 7/8" dia. hole for slip fit on 5 and 6 prong bases	**No. G-123**	**doz/$7.50**

RADIO COLLECTOR APPAREL

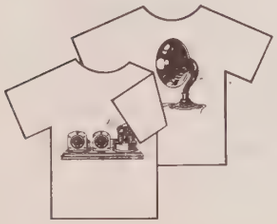
RADIO COLLECTOR T-SHIRTS

All shirts are a 50/50 cotton blend, available in medium, large and extra-large sizes. Specify size when ordering.

PHILCO 90 CATHEDRAL

Beautifully silkscreened front and back, in brown and black on ecru (creme) color shirt.

No. G-804 **$14.50**



ATWATER KENT BREADBOARD

Silkscreened front and back in black, gold, brown and forest green on white shirt.

No. G-805 **$14.50**

NEW!

WINDBREAKER

Quality nylon windbreaker with polyester lining. Color is yellow with brown and black picture of Philco 90 cathedral on front and words "Radio Collector" below it. Available in medium, large, and extra-large sizes.

No. G-809 **$33.95**

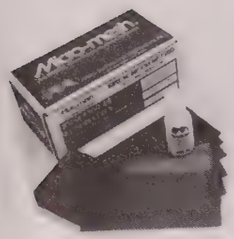
NEW!

CAP

Quality baseball cap with adjustable headband has picture of Philco 90 cathedral on front with words "Radio Collector" below it. Color of cap is beige, with brown and black picture.

No. G-812 **$8.00**

CABINET RESTORATION SUPPLIES



"MICRO-MESH" PLASTIC RESTORATION SYSTEM

The most effective system available for removing scratches and haziness from plastic radio cabinets and clear dial windows. Each Kit contains 5 pieces of 3 x 6" Micro-Mesh cushioned abrasive cloth ranging from coarse to ultra-fine, foam sanding block, 3 oz. bottle of Micro-Gloss liquid abrasive and a soft buffing cloth. 8 oz.

No. SC-228 $19.95

PLASTIC POLISH

Novus No. 1—Cleans and glazes plastic surface to resist finger marking, dust build-up and is anti-static.

2 oz.	**No. SC-216**	**$ 1.69**
8 oz.	**No. SC-226**	**3.88**

Novus No. 2—Removes fine scratches, abrasions and haziness from plastic surfaces. Great for plastic radio dial windows. For best results, follow with Novus No. 1 polish.

2 oz.	**No. SC-217**	**$ 2.29**
8 oz.	**No. SC-227**	**4.98**

NEW!

Novus #3 - Removes scratches from acrylic surfaces. More abrasive than Novus #2. Effective for deeper scratches. Treatment must be followed by Novus #2 to buff and polish surface.

8 oz. **No. SC-225** **5.50**

PLAS-T-PAIR

A complete repair kit for plastic knobs, radio cabinets and other plastic parts. It can be poured into a crack or molded to fill gouges, holes, or make parts. After setting it can be sanded, drilled, or polished.

No. SC-244 $ 5.95

DO-IT-YOURSELF ELECTROPLATING!

Replate nickel, silver or brass radio and phonograph parts. Uses current from any 3 to 6 volt D.C. supply or batteries. Plating brush connects to positive voltage and part being plated connects to negative. (Instructions included with plating brush).

PLATING COMPOUND		
Brass	**SF-222** per 2 oz. jar	**$ 2.50**
Copper	**SF-296**	**2.50**
Nickel	**SF-223**	**5.25**
Silver	**SF-224**	**11.50**
PLATING BRUSH	**SF-225**	**ea. 1.25**

TIBET ALMOND STICK

Wipes out scratches in wood radio cabinets quick-as-a-wink. Simply rub end of stick over scratches in any type of wood and watch them disappear like magic!

No. SC-243 $ 2.95

"LACQUER STIK", WIPE ON PAINTSTICK

Quick, economical way to color engraved lines or stampings on metal, glass, plastics, etc. Works great for filling in markings on TRF radio dial knobs and faceplates.

White	**SF-229**	**$ .90**	Gold	**SF-230**	**$ 1.90**
Red	**SF-437**	**.90**	Black	**SF-438**	**.90**

DRI-TRANSFER LETTERING

Rub-on lettering simplifies panel labeling, dial marking, etc. Available in either black or white color.

DIAL MARKING KIT–Contains dial patterns, arcs, lines, dots, switch symbols, graduation lines, lines for rotary tap switches and calibrated meter dials. 3 sheets.

No. SM-175 (black) **$ 3.50**
No. SM-176 (white) **3.50**

AUDIO, TV, & HI-FI–Contains over 400 words from 'AC' to 'Zero' in alphabetical order, as well as miscellaneous numbers and letters. 4 sheets.

No. SM-177 (black) **3.50**
No. SM-178 (white) **3.50**

AMATEUR RADIO & CB–Contains over 300 words from 'AC' to 'X-TAL' in alphabetical order, as well as miscellaneous numbers, letters and frequency designations. 4 sheets.

No. SM-179 (black) **3.50**
No. SM-180 (white) **3.50**

WRINKLE FINISH

Great for refinishing vintage metal radio cabinets, faceplates and speakers. 12 oz. spray can.*

Jet Black	**SF-227**	**$ 4.69**
Grey	**SF-701**	**4.69**
Brown	**SF-226**	**5.95**

HAMMERTONE FINISH

Restore hammered finishes with metallic grey hammertone paint from Illinois Bronze. Supplied in 12 oz. spray can.*

No. SF-232 $ 4.98

***NOTE:** Federal regulations prohibit us from shipping this product by air.

DECALS

High quality lacquer decal reproductions for early radio cabinets.

PHILCO–Features the Philco name in 3 sizes, and 20 different knob function labels as found on Philco receivers of the 1930's and 1940's, including OFF-ON, BASS, B'DC'ST, POL., S.W., TONE, BAND SELECTOR, TRANSITONE, HIGH FIDELITY, MAGNETIC TUNING, VOLUME, TREBLE, SELECTIVITY AND PHONO-RADIO all in gold with black outline. Many of the words are curved to follow the contour of the knobs.

No. SM-907 $ 5.00

ATWATER KENT, STEWART-WARNER–The A.K. name comes both in solid gold and solid black colors, and the Stewart–Warner name is black with gold outline. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'SW,' 'POL' and 'AV.'

No. SM-906 $ 2.50

RCA, STROMBERG-CARLSON & ADMIRAL–"RCA Victor" appears in 3 different logo styles, along with "Stromberg-Carlson" and "Admiral." Gold with black outline.

No. SM-908 $ 4.50

ZENITH–Gold with black outline, in 2 common sizes. Also contains the words 'AUTOMATIC,' 'MEDIUM WAVE,' 'STD. BROADCAST,' AND 'SHORTWAVE.'

No. SM-904 $ 2.50

EMERSON TREBLE-CLEF LOGO–Gold with black outline, in 2 common sizes. Also contains the words 'OFF-ON,' 'VOLUME,' 'TONE,' 'BAND,' 'AM,' 'FM,' 'BC,' 'SW,' 'POL' and 'AV.'

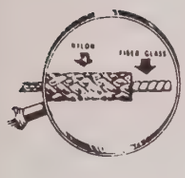
No. SM-905 $ 2.50

GENERAL ELECTRIC, FADA & GAROD–"General Electric" logo appears in 3 commonly used sizes, along with "FADA Radio" and "Garod." Gold with black outline.

No. SM-909 $ 4.50

EMERSON, DEWALD, BELMONT, SONORA & TOM THUMB–"Emerson" script logo (without treble-clef sign) and other manufacturer's logos for popular plastic radios. Gold with black outline.

No. SM-910 $ 4.50



DIAL DRIVE CABLE

No-stretch black cord made of nylon braid over fiberglass core. 25 foot spools.

Med./Heavy	.040" dia.	**No. SM-74-25**	**$ 2.59**
Standard Thin	.028" dia.	**No. SM-75-25**	**2.59**
Extra Thin	.024" dia.	**No. SM-75A-25**	**2.59**

AERIOLA SR. INSTRUCTION CARD

A reproduction of the Westinghouse/RCA operating and hook-up instruction card which was located inside the Aeriola Sr. lid.

No. PD-232 **$ 3.75**

NICHROME RESISTANCE WIRE

Use for making wirewound resistors, small heater elements, or repairing filament potentiometers. Available in 4 sizes. Minimum order – 10 feet.

PART NO.	OHMS/FT.	GAUGE	PRICE (Per Ft.)
No. SW-501	2.57	26	**$ .10**
No. SW-500	4.09	28	**.10**
No. SW-502	6.50	30	**.10**
No. SW-503	20.80	35	**.10**

OLD STYLE SPAGHETTI

Black fiberglass sleeving is varnished and closely resembles early style spaghetti. Available in 2 sizes.

20 AWG	**No. SM-436**	per ft.	**$ .20**
11 AWG	**No. SM-401**	per ft.	**.30**

SPAGHETTI ASSORTMENT

9" lengths of insulating sleeving in assorted colors and sizes from No. 24 through 3/8". Includes old style varnished as well as plastic and fiberglass types.

Pkg. of 25 **No. SM-550** **$ 1.70**

HEAT SHRINKABLE PVC TUBING

Shrinks to half its original size with heat gun, barrel of soldering iron or just a match. Use for insulating terminals, connectors and wire splices.

PART NO.	DIA. EXPANDED	PIECES PER BAG
SM-12-1044	.125	30
SM-12-1046	.187	27
SM-12-1048	.250	23
SM-12-1080	Asst. Black	23

Pkg. of 6" lengths **$ 3.60**

INSULATING CAMBRIC

Yellow varnished cambric .010" thick, used in transformers, field coils, chokes, etc. Dielectric strength 5,000 volts. 9" wide roll contains 210 sq. inches.

No. SM-549 **$ 4.02**

FISH PAPER

Gray insulating paper .010" thick, used in switches under terminals, in transformers, etc., where mechanical strength is required. Dielectric strength 3000 volts. 9" wide roll contains 250 sq. inches.

No. SM-560 **$ 2.92**

UNIVERSAL REPLACEMENT COILS

Will replace broadcast band coils in any tube type radio. Adjustable inductance for perfect tracking. Mount on bus wire leads or in 5/16" hole. Coils are similar to Miller numbers that correspond.

PART NO.	DESCRIPTION	PRICE
PC-70-A	Antenna Coil	**$ 2.90**
PC-70-OSC	Oscillator Coil	**2.75**
PC-70-RF	RF Coil	**2.90**

R.F. CHOKES (HAMMOND)

3 section windings on ferrite forms approx. 1 1/4" long by 9/16" over windings. With axial leads 1 1/2" long.

PART NO.	INDUCTANCE	MAX D.C. RESISTANCE	MAX D.C. CURRENT	PRICE
PC-1535B	2.5 mH	9 ohms	160 mA	**$ 5.00**
PC-1535D	5.0 mH	14 ohms	160 mA	**5.37**
PC-1535G	10.0 mH	31 ohms	100 mA	**5.44**

I.F. TRANSFORMERS

455 kHz. I.F. transformers in 3/4" square can. PC-212 has "K-Tran" mounting. PC-209 has two #6-32 mounting studs. With solder lugs.

No. PC-209 **$ 4.00**
No. PC-212 **5.00**

ATWATER KENT TUNING BELTS

Beryllium copper belt stock for early A.K. and other dial drives. .004 in. thick by 3/16 in. wide. Can be easily soldered for joint.

No. SM-242	5 ft. length	**$ 2.50**
No. SM-242A	100 ft. length	**25.00**

ATWATER KENT DIAL DRIVE PULLEYS

A functional reproduction of the Atwater Kent pulley used in the belt drive systems of mid-twenties vintage TRF receivers. Pulley is double-width 2-belt type, but may also be used to replace the single-belt pulleys. 1 5/8" O.D., 1/4" I.D., 1/2" wide, with set screw.

No. PD-115 **$ 9.85**

ZENITH DIAL BELTS

Replacement belts in 4 hard-to-find-sizes. Belts are rubber impregnated fabric 1/8" wide and 1/16" thick.

No. SM-417 — Equivalent to G.C. #117
Circumference Around Pulleys — 9 1/16"
Cut Length — 9 1/4"
Fits chassis nos. 8B01, 10B01, 10B2, 1005, 1103, 12A6, 12B1, 1204, 1501, 1502, 1502A, 1503, 5516, 5518, 5679, 5707, 5808, 5905 and 5906.

No. SM-418 — Equivalent to G.C. #138
Circumference Around Pulleys — 11 57/64"
Cut Length — 12 5/64"
Fits chassis nos. 12A1, 12A2, 12A3, 12A4, 12B2, 1204, 1206, 1207, 14B1, 1501, 1502, 1502A, 1503, 22B1, 5715, 5905, 5906, and 5907.

No. SM-419 — Equivalent to G.C. #168
Circumference Around Pulleys — 12 13/16"
Cut Length — 13"
Fits chassis nos. 1004, 1204, 1501, 5634, 5635, 5709, 5711, 5801, and 5905.

No. SM-420 Equivalent to G.C. #167
Circumference Around Pulleys — 8 3/16"
Cut Length — 9"
Fits chassis nos. 5522, 5523, 5638, 5642, 5648, and 5710.

each **$ 6.95**

CHASSIS BOXES

Chassis boxes by Hammond for projects. Available in steel or aluminum (cages available in steel only). Steel models are grey baked enamel finish, aluminum models are natural finish. Box and cover plate available in 5 sizes, with top cage available for three largest sizes. Cages are perforated for heat ventilation.

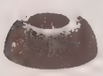
		STEEL		ALUMINUM	
DESCRIPTION	SIZE-IN.	PART NO.	PRICE	PART NO.	PRICE
Chassis Box	6x4x2	PH-1441-8	$ 6.57	PH-1444-8	$ 6.83
Chassis Box	7x5x2	PH-1441-12	6.73	PH-1444-12	6.97
Chassis Box	10x6x2	PH-1441-16	9.25	PH-1444-16	9.50
Chassis Box	12x8x2	PH-1441-22	13.68	PH-1444-22	13.68
Chassis Box	17x10x3	PH-1441-32	17.22	PH-1444-32	17.48
Cover Plate	6x4	PH-1431-8	3.17	PH-1434-8	3.13
Cover Plate	7x5	PH-1431-12	3.13	PH-1434-12	3.37
Cover Plate	10x6	PH-1431-16	4.10	PH-1434-16	4.33
Cover Plate	12x8	PH-1431-22	6.77	PH-1434-22	7.00
Cover Plate	17x10	PH-1431-30	7.25	PH-1434-30	7.47
Cage	10x6	PH-1451-16	22.47		
Cage	12x8	PH-1451-22	31.53		
Cage	17x10	PH-1451-30	38.85		

RUBBER CHASSIS MOUNT WASHERS

Gum rubber chassis mounting washers as used on thirties vintage Zenith and Philco radios. Allows proper dial centering in cabinet opening. PH-182 and PH-185 have adhesive backing for laminating to other washers to increase thickness. 1/4" inner diameter.

1 1/4" dia. x 1/8" thick	No. PH-182	$ .50
1 1/4" dia. x 1/4" thick	No. PH-183	.50
7/8" dia. x 1/8" thick	No. PH-185	.50
7/8" dia. x 1/4" thick	No. PH-186	.50
1 1/4" dia x 3/8" thick	No. PH-187	.50

RUBBER BUMPERS AND FEET



Screw on type.

1/4"H., 1/2" O.D.	No. PH-1308	$ .12
3/8"H., 15/16" O.D.	No. PH-253	.24

Self-adhesive backing.

1/8"H., 1/2" O.D.	No. PH-16-150	2.41
	Package of 20	

LEATHER REPLACEMENT HANDLES FOR EARLY RADIOS

Genuine leather handles fit many Zenith, Philco and Emerson portable radios, as well as other brands. Includes metal brackets and rivets.

PART NO.	BRACKET SPACING	COLOR	PRICE
PH-254	4 1/2" to 5 1/2"	Brown	$ 8.95
PH-255	4 1/2" to 5 1/2"	Black	8.95
PH-256	5" to 6"	Brown	8.95
PH-257	5" to 6"	Black	8.95
PH-258	5 1/2" to 6 1/2"	Black	13.97

STRAIN RELIEF

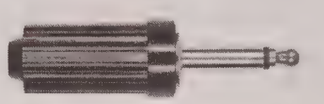
Rubber type for standard zip cord. Black nylon clamping relief for SPT-1 (.120" x .220") cord. Mounts in 7/17" chassis hole.

Rubber	No. PH-11-402	$ .18
Nylon	No. PH-11-406	.10

PHONE TIP

Standard .080" pin with .120" solder cup. Solid brass, nickel-plated.

Pkg. of 10 — No. SH-33-156 — $ 4.98



PHONE PLUG

Standard 1/4" two conductor phone plug. With screw connections for headphone pins, etc. Black plastic handle.

No. SH-33-622 — $ .79

PHONE PLUG

1/4" two conductor phone plug. Same as above except with solder connections..

No. SH-256 — $ .80

BINDING POST

High quality nickel plated binding post with black plastic screw down cap. Mounts in 3/16" dia. hole and is insulated from chassis. Will accept banana plug.

No. SH-166 — $ .90

EARLY STYLE BINDING POST

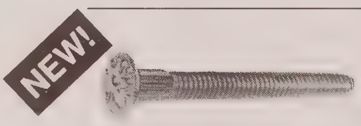
An exact reproduction of an early Philmore binding post. Precision machined from brass, nickel plated, 1/4" x 5/8" high, with screw.

No. SH-159 — $ 1.95

FAHNESTOCK CLIP

Spring brass clip 3/4" long for up to 14 ga. wire. No. 6. mounting hole.

Pkg. of 100 — No. SH-11-4034 — $10.14



PH-240

PH-241
PH-242
PH-243

DECORATIVE HEAD SCREWS

Decorative head screws, like used for speaker mounting on 1930's vintage radio cabinets. #8-32, 1 1/2" long.

Nickel Plated	No. PH-240	$ .45
Brass Plated	No. PH-241	.45
Bronze Plated	No. PH-242	.45
Unplated	No. PH-243	.45

PLASTIC BAGS PROTECT VALUABLE LITERATURE!

9" X 12" .0015 gauge clear flat plastic bags are ideal for protecting and displaying early magazines, pamphlets, booklets, literature, etc. Package of 100 bags.

No. SB-703 — $ 3.99

TEST ACCESSORIES

PHILIPS ECG MULTITESTER AM-14

Pocket size 6 function, 14 range meter.

- ± 4% DC accuracy
- 2 1/4" mirrored scale
- Jeweled meter movement
- 10K ohms/V-DC, 4K ohms/V AC input sensitivity
- Fuse and diode protection
- Battery test - 1.5V and 9V
- Color coded scale and panel
- Size 2 1/2" x 4" x 1 1/4", 5 oz.
- Includes battery, test leads and instruction manual.

No. SZ-230 $12.95

PHILIPS ECG DIGITAL CAPACITANCE METER

Nine ranges give precision readings from .1pf to 20,000MF, on a 3 1/2 digit LCD display. Can be used to check virtually all capacitors for tolerance value, selecting matched sets, etc.

- 0.1pf to 20,000 MF, 9 ranges
- 0.5% basic accuracy
- 3 1/2 digit LCD, 0.5" H.
- Zero adjustment
- Input protected
- Low battery indicator
- Over range indicator
- Rugged construction
- Tilt stand
- Size: 6" h. x 2.8" x 1.5", 12 oz.
- Includes: Carrying case, test leads, battery, spare fuse and instructions.

No. SZ-201 $69.95

CIRCUIT TESTER

Incorporates electronic circuit generating broad-band signal from 1 KHz through 30 MHz. Has common lead with alligator clip. Requires 1 AA battery (not included).

No. SZ-20-106 $21.65

ANALOG MULTIMETER PHILIPS ECG AM-20

General purpose VOM with 9 functions, 20 ranges.

- ± 3% DC accuracy F.S.
- 3 1/2" mirrored scale
- Jeweled meter movement
- 20K ohms/V-DC, 8k ohms/V-AC input sensitivity
- Fuse and diode protection
- 10-Amp DC Range
- 1000 volts AC/DC
- Transistor I_{CEO} test
- Diode test (measures V_F)
- Continuity buzzer
- Size: 4" x 6" x 1 3/4", 14 oz.
- Includes: battery, test leads and instruction manual

No. SZ-220 $29.95

RESISTANCE WHEEL

Rotate dial to select resistor for best circuit operation. Uses 1/4 watt 5% resistors covering 5 ohms to 1 megohm. With insulated alligator clips.

No. SZ-20-104 $18.01

JUMPER WIRE SET

Heavy duty test leads 22" long with insulated alligator clips. Contains black, red, white, green and yellow jumpers.

Set of 5 **No. SZ-J4-655 $ 5.02**

STROBE DISK

Plastic disk calibrated to show correct turntable speed of plus or minus 2% or 4% deviations.

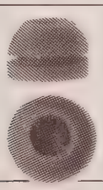
No. SZ-30-230 $ 7.22

PHONOGRAPH PARTS

EDISON AMBEROLA NEEDLE

Diamond replacement needle for Edison Amberola cylinder phonographs.

No. SP-161 $19.00



MOTOR MOUNTING GROMMETS

Rubber grommets for mounting phonograph motors measure 1/2" dia., 5/16" high, and 1/4" inner dia.

Pkg. of 9 No. PR-407 $ 2.99

PHONO PICK-UP WIRE

Fine extra flexible 4 conductor, color-coded cable, 5 ft. long.

No. SW-L3-644 $ 3.50

CONVENTIONAL PHONOGRAPH NEEDLES

For all set screw and thumb screw cartridges.

No. SP-119 Straight steel needles, good for 12 plays each. Pkg. of 25. **$ .80**

No. SP-160 Sapphire, all speed needle **1.50**

ZENITH COBRA CARTRIDGES

Diamond tipped needle and cartridge to replace the Zenith Cobra and Wurlitzer cartridges.

.001 tip radius for 16, 33, & 45 rpm (green). **No. SP-162 $12.50**

.002 tip radius for all speeds (green & red). **No. SP-186 12.50**

SP-979

SP-990

REPLACEMENT CARTRIDGES

SP-991

SP-992

PART NO.	ORIGINAL MFG. NO.	MONO (M) STEREO (S)	ELEMENT	VOLTS OUTPUT	SPEED (RPM)	TRACKING FORCE (GRAMS)	PRICE
SP-979	Shure M44-C	(S)	Magnetic	9.3mv.	33-45	3-5	$33.95
*SP-990	Pfans. 911SS73	(M)	Ceramic	1.0	All	9	11.95
SP-991	Seeburg 345-03d	(M)	Magnetic		45	4-6	47.95
SP-992	Pickering NP/AC	(S)	Magnetic	7.5mv.	33-45	3-7	16.95

***SP-997** *Mounting bracket for SP-990* **$9.50**

SP-993

SP-981

SP-996

REPLACEMENT NEEDLES FOR ABOVE

PART NO.	TYPE	SPEED	CARTRIDGE USED IN	PRICE
SP-993	Pickering D1527, Diamond	78	Pickering NP/AC	$27.95
SP-977	Pickering P/AC-1, Diamond	33-45	Pickering NP/AC	9.95
SP-981	Shure N44-3, Diamond	78	Shure M44, M55, M80E, M98A, V-15	24.95
SP-998	Shure N44C, Diamond	33-45	Shure M44, M55, M80E, M98A, V-15	19.95
SP-996	Seeburg D345-07, Diamond	33-45	Seeburg 345-03d	(pair) 19.95

CHEMICALS

BIG BATH

All purpose degreaser and cleaner for electrical contacts, switches, pc boards and components. Evaporates instantly and leaves no residue.

12 oz. **No. SC-19-902** **$5.34**
22 oz. **No. SC-19-903** **9.49**

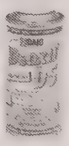
JIF ACTION

Cleans and provides long lasting protection for electronic controls, switches, relays, potentiometers and other components. Stops noise and squeaks. Contains silicone additive.

6 oz. **No. SC-19-634** **$3.00**
16 oz. **No. SC-19-636** **5.90**

NEW!

DEOXIT



Deoxidizes, cleans and seals electrical connections. Improves conductivity, reduces noise and distortion, arcing and RFI. Reduces wear and abrasion on electrical connectors and contacts. Use on stationary or moving contacts, with similar or dissimilar metals. 5.5 oz spray, 5% concentration, adjustable valve.

No. SC-D5S-6 **$8.50**

PEN OILER

High quality non-gumming instrument oil. Fine long-reaching metal tube extends and retracts. Use on timers, clocks, etc.

No. SC-10-984 **$3.13**

RUBBER REVITALIZER

Removes "dead" rubber from old rubber surfaces to clean and revitalize idler wheels, belts and pinch rollers. 1 oz. bottle.

No. SC-220 **$1.95**

PHONO NON-SLIP

Prevents slippage and restores proper functions on belts and drive wheels in turntables and tape recorders, especially where the rubber has hardened or become slick.

2 fl. oz. **No. SC-10-8602** **$2.01**

LUBRIPLATE

White calcium base grease lubricant. Good for use on wiping contacts and sliding parts. Will not oxidize or harden.

1 3/4 oz. tube **No. SC-10-2302** **$2.92**

PHONOLUBE

Light bodied grease made of polymerized oil specially developed for the lubrication of small geared mechanisms. Retains its viscosity over a wide range of temperatures.

2 oz. tube **No. SC-10-1223** **$2.65**

SERVICE CEMENT

A quick-drying waterproof clear adhesive which forms a strong vibration resistant bond. Ideal for speaker repairs and bonding semi-porous materials to each other or to metals, plastics, etc.

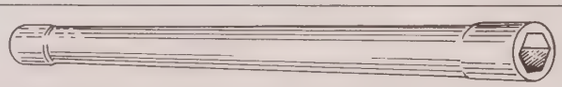
2 oz. tube **No. SC-10-302** **$2.70**

TOOLS

TUBE EXTRACTOR

Remove WD-11 from Aeriola Sr., etc. Also handy for removing hot tubes and retrieving parts from cavities. Nickel-plated spring steel with rubber cushioned prongs. 4 oz.

No. ST-5092 **$5.20**



PHILCO ALIGNMENT TOOL

Double-end 1/4" hollow hex alignment tool for early Philco radios. 5" long. New heavy duty design.

No. ST-703 **$2.95**

ALIGNMENT TOOL KIT

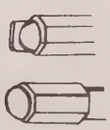
Contains 5 different tools for all standard adjustments. Includes "Extend-it" for long reaches. Tools are Delrin packaged in pocket-saver pouch. Tools are: 8282 Zenith type, 8606 Hex wrench, 9091 Hex core tool, 9304 double end tool.

No. ST-8454 **$5.64**

CB ALIGNMENT TOOL KIT

Contains 5009 Duplex no-metal screwdriver, 5097 K-tran tool, 8271 core aligner, 8282 Zenith alignment tool, 9091 hex iron core tool, 9440 transistor tool, 8276 Duplex aligner and 9304 double end tool.

No. ST-18-530 **$8.92**



DOUBLE END HEX TOOL

Molded from Delrin, 5 3/32" long. Ends are .125 hex with .10" wide by .02" thick plastic screw driver on one end.

No. ST-9091 **$1.30**

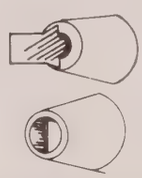
Same as above, with .100" hex.

No. ST-702 **1.30**

DUPLEX ALIGNER

Butyrate shaft 6 1/8" long with 1/8" wide steel tips. Tip on end recessed.

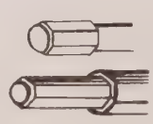
No. ST-8276 **$1.65**



ALIGNMENT TOOL

Professional tool made of Tenite. 5 1/8" long shaft, 3/8" dia. with tapered ends. Tips similar to above.

No. ST-8609 **$1.70**



3-IN-1 HEX CORE TOOL

Molded from Celcon 5 9/16" long. Stepped hex .078" to .100". Undercut end .100" hex to reach bottom slug in coils.

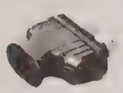
No. ST-9302 **$1.56**

WIRE

BRAID COVERED POWER CORD

Brown 2 conductor 18 gauge, stranded power cord. Similar to woven cloth-covered cords in early AC radios.

Per ft.	**No. SW-102**	**$ .30**
250 ft. spool	**No. SW-102B**	**60.00**



AC CORD PLUG

Flat, brown phenolic plug, 1 1/2" wide x 1 3/16" deep.

No. PS-104 $ 1.20

CELANESE COVERED WIRE

White celanese covered. Resembles early cotton covered wire. May be color dyed. Litz wire ideal for loop antennas. Cotton wrap.

#24 Magnet Wire, Per Foot	**No. SW-203**	**$ .04**
#26 Magnet Wire, Per Foot	**No. SW-107**	**.03**
54/38 Strand-Litz Wire, Per Foot	**No. SW-106**	**.09**

COTTON COVERED MULTI-CONDUCTOR CABLE

8 conductor 20 gauge stranded wire with brown cotton braid over all. Use to replace 1920's Atwater Kent battery cable, etc.

per ft. **No. SW-711 $ 2.20**

MAGNET WIRE

Insulated with two coats of enamel. Perfect for winding coils and transformers.

21 gauge, 100 ft. spool	**No. SW-L3-610**	**$ 2.50**
24 gauge, 200 ft. spool	**No. SW-L3-612**	**2.50**
28 gauge, 200 ft. spool	**No. SW-L3-614**	**2.50**
32 gauge, 400 ft. spool	**No. SW-L3-616**	**2.50**
36 gauge, 750 ft. spool	**No. SW-318**	**2.60**
40 gauge, 1500 ft. spool	**No. SW-320**	**2.90**

BUS WIRE

#22 solid tinned copper bus wire. Approx. 100'.

per spool **No. SW-428 $ 2.50**

EARLY STYLE SQUARE BUS WIRE

#12 AWG Square tinned copper.

per 10 ft. **No. SW-140 $ 2.00**

CLOTH COVERED HOOK-UP WIRE

#20 stranded copper wire covered with lacquered cotton braid, closely resembles wire used in the late 20's and 30's. Available in 8 colors, on 50 ft. spools.

Orange	**No. SW-703**	**$ 5.95**	Green	**No. SW-707**	**$ 5.95**
Black	**No. SW-704**	**5.95**	Yellow	**No. SW-708**	**5.95**
Red	**No. SW-705**	**5.95**	White	**No. SW-709**	**5.95**
Blue	**No. SW-706**	**5.95**	Brown	**No. SW-710**	**5.95**

"PUSH-BACK" CLOTH-COVERED WIRE

New, old stock push-back hook-up wire. 22 AWG, solid black color.

Per ft. **No. SW-712 $ .09**

REPLACEMENT CORD

SPT-1, 18 gauge 2 conductor, 6 ft. long with molded-on plug.

Black	**No. SW-118**	**$ .89**
Brown	**No. SW-104**	**.89**

STRANDED AERIAL WIRE

Stranded 16-gauge copper wire, not insulated. For outside antennas. 50 ft. roll.

No. SW-32-146 $ 4.99

ANTENNA LEAD-IN WIRE

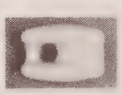
Old-style flat lead-in to fit under closed window. Has fahnestock clip on each end.

No. PW-499 $ .95

INSULATORS

Old style insulator for antenna installations. Molded plastic.

No. SH-2130 $ .80



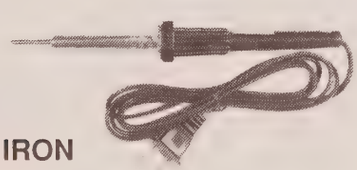
Porcelain egg-shaped insulator. 1 1/4" x 7/8".

No. SH-131 $ 3.00

Isolantite insulator, 4" long x 3/4" diameter.

No. SH-130 $ 3.30

SOLDER AIDS



SOLDERING IRON

30 watt AC/DC just the right size for electronic work. 5/32" dia. replaceable tip. UL approved. 6 oz.

No. ST-120 $ 5.89

REPLACEMENT TIPS 5/32" dia. **No. ST-121 .99**

DESOLDERING BRAID

Made of finely-woven copper braid impregnated with pure rosin flux, for high efficiency and maximum solder holding capacity. 5 foot dispenser spool.

.08" wide	**No. ST-22-405**	**$ 1.70**
.15" wide	**No. ST-503**	**2.30**

SOLDER

60/40 rosin core type in convenient, clear plastic, self-feed dispenser.

Standard .050" dia., 6 1/2 ft. length	**No. ST-H3-390**	**$ 2.15**
Fine Line .032" dia., 12 ft. length	**No. ST-H3-391**	**2.39**

SOLDER AID TOOL

Stainless steel, solder will not stick. 6 1/2" long with plastic handle. Forked tip on one end, straight reamer on the other.

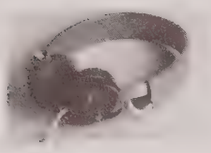
No. ST-9075 $ 2.82

SPEAKERS AND HEADPHONES

FULL-RANGE REPLACEMENT SPEAKERS

High quality, permanent magnet, full-range replacement speakers. For electro-dynamic speakers we suggest substituting a 5 or 10 watt wirewound resistor of approximately the same resistance as the old field coil. For output transformers, see page 13.

PART NO.	SIZE & SHAPE	IMPEDANCE (OHMS)	POWER (WATTS)	PRICE
PA-600	4" square frame	8	1	$ 5.50
PA-601	5" pin cushion frame	4-8	5	5.95
PA-602	6" pin cushion frame	8	10	6.95
PA-603	8" round frame	8	10	9.70
PA-604	12" round frame	8	30	24.00
PA-173	3 x 5" rectangular frame	4-6	5	4.70
PA-69E8C	6 x 9" oval frame	4	8	11.90



HIGH IMPEDANCE DOUBLE HEADSET

High quality 2000 ohm double headphone. Has black light weight plastic ear caps, with metal headband, plastic cord and 2 phone tips. Works great with crystal set or our one tube radio kit. 6 oz.

No. PA-466 $13.70

HIGH QUALITY DOUBLE HEADSET

Circa 1965 vintage military double headset with cloth-covered adjustable headband. Factory-sealed foil packing ensures like-new condition. 100 ohms. 1 lb.

No. PA-112 $ 9.50

OLD STYLE SPEAKER WIRE

Brown cloth-covered 2-conductor tinsel wire, like found on 1920's vintage horn and cone-type speakers. Sold by the foot, terminals not included. See page 21 of catalog for phone tips.

No. PW-413 per ft. $ .50

CRYSTAL EARPHONE

High Impedance crystal earphone is very sensitive and works great with crystal radios. Comes with 3 ft. cord and miniature (3.5mm) plug.

No. PA-480 $ 2.29

NEW!

GUITAR AMPLIFIER PARTS AND SUPPLIES

CABINET COVERING

Replacement cabinet covering for Fender and other popular guitar amps. Tolex is 54" wide, Tweed is 66" wide. Sold per linear foot.

Tweed	SG-305	$13.00
Black Tolex	SG-306	8.90
Cream Tolex	SG-307	8.90
Brown Tolex	SG-308	8.90

GRILL CLOTH

Replacement grill cloth as found on Fender and other vintage guitar amps. Cloth is 38" wide, sold per linear foot.

Oxblood/Yellow Stripe	SG-301	$ 8.90
Oxblood	SG-302	8.90
Black/White/Silver	SG-303	8.90

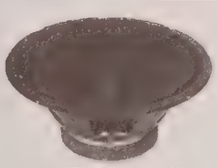
NEW!

SOVTEK GUITAR AMPS

Sovtek guitar amp heads from Russia feature 2 inputs, separate power and stand-by power switches, volume, treble, middle, bass and presence controls, and 4, 8, and 16 ohm speaker outputs. MIG-60 and MIG-100 also feature tube overdrive/master volume control. Rugged construction, black tolex covered cabinet. Speakers not included.

PART NO.	DESCRIPTION	DIMENSIONS(INCHES)	WEIGHT(LBS.)	PRICE
No. R-201	MIG-50 (50 watt, 2-5881 tubes)	19 1/2 x 9 x 8	28	$299.00
No. R-202	MIG-60 (60 watt, 2-EL34 tubes)	20 1/4 x 8 3/4 x 9	32	320.00
No. R-203	MIG-100 (100 watt, 4-5881 tubes)	25 3/4 x 11 3/4 x 8 3/4	48	399.00

NEW!



KENDRICK 12"

EMINENCE 12"

MUSICAL INSTRUMENT SPEAKERS

Full range replacement speakers for guitar amplifiers. For rugged, high quality applications we carry Kendrick "Blackframe" speakers. The Kendrick 8" speaker is an ideal replacement for the Fender "Champ."

PART NO.	MFG.	SIZE (INCHES)	IMPEDENCE (OHMS)	POWER (WATTS)	PRICE
PA-701	Kendrick	8	4	8	$55.00
PA-704	Eminence	10	8	50	28.50
PA-702	Kendrick	10	8	20	65.00
PA-705	Eminence	12	8	75	34.90
PA-703	Kendrick	12	8	80	119.00
PA-706	Eminence	15	8	100	39.95

RADIO COLLECTING BOOKS

THE COLLECTOR'S GUIDE TO ANTIQUE RADIOS, 3rd Ed. By Marty and Sue Bunis. The comprehensive price guide for antique radio collectors gives brief descriptions of over 5000 radio models, dates of manufacture and current market values. Newly expanded 3rd Edition has updated prices and 500 new color photos. 280 pages. 1.2 lbs.

No. B-670 **$18.95**

TRANSISTOR RADIOS: A COLLECTOR'S ENCYCLOPEDIA AND PRICE GUIDE. By David and Robert Lane. A price and identification guide to more than 2500 transistor radios, including novelty sets. Each listing shows manufacturer, model number, description, date and price. Also includes history, collecting tips and guidelines for care and restoration. Contains hundreds of photos. 192 pages, eight pages in color.

No. B-657 **$19.95**

THE COLLECTOR'S GUIDE TO TRANSISTOR RADIOS. By Marty and Sue Bunis. Transistor radios have become one of the fastest growing segments of radio collecting. This book will help identify over 2000 different models, giving descriptions, current value and over 400 color photographs. 256 pages. 1 lb.

No. B-653 **$15.95**

MADE IN JAPAN, TRANSISTOR RADIOS OF THE 1950'S AND 1960'S. By Roger Handy, Maureen Erbe, and Aileen Antonier. A pictorial essay chronicling the beginnings of the transistor era in the United States, and featuring over 175 radios lavishly illustrated in full color photographs. Also gives company histories and explores the pocket transistor radio as a reflection of the pop culture of the late 1950"s and 1960"s. 180 pages. 1.5 lbs.

No. B-649 **$16.95**

GUIDE TO OLD RADIOS: POINTERS, PICTURES AND PRICES. By David & Betty Johnson. Gives help with identifying, dating and pricing antique radios, featuring a list of 3300 radios showing descriptions and price ranges. Brief company histories are included. Over 350 photos and illustrations, including 8 pages in full-color. 192 pages total. 1.3 lbs.

No. B-526 **$16.95**

VINTAGE RADIO 1887–1929, 4th Ed. By Morgan E. McMahon. The story of the beginnings of wireless, featuring over 1000 pictures of early radio equipment, vacuum tubes, headphones, speakers and accessories. This was the first book published for antique radio collectors and is still a standard reference for the hobby. 263 pages. 1 lb.

No. B-304 **$13.95**

A FLICK OF THE SWITCH 1930–1950. By Morgan E. McMahon. A companion volume to *Vintage Radio 1887–1929*, this book continues with the history of radio into the beginnings of Television. Over 1000 pictures. 300 pages. 1 lb.

No. B-305 **$11.95**

INTRODUCTION TO KEY COLLECTING. By Tom French.. A collector's guide to keys and bugs. Provides valuable information on dating keys, historical background, the manufacturers, etc. Contains dozens of photos. 64 pages. .5 lb.

No. B-558 **$ 9.95**

VIBROPLEX COLLECTOR'S GUIDE. By Tom French. The only book of its kind detailing the history of the Vibroplex company and the keys they produced. Contains information on dating and identifying the Vibroplex bugs, methods of adjustment, and reproductions of company ads. Very nicely done. 87 pages. 1 lb.

No. B-547 **$14.95**

THE RADIO/TV FINDER. By John Okolowicz. This handy guide provides a ready reference to 6700 radio pictures and 260 television pictures found in 24 popular books on radio and TV collecting. The easy-to-read tabular format can be used to quickly determine date of manufacture, cabinet style and composition, original selling price and "nicknames" given to the set, as well as the book and page number to go to for a picture. 110 pages. 1 lb.

No. B-615 **$10.95**

RADIOS REDUX: LISTENING IN STYLE. By Philip Collins. From the author of *Radios: The Golden Age* comes another colorful picture book featuring 80 novelty, colored plastic and deco radios from the 1930's thru 1950's. 119 pages, beautiful photography. 1.5 lbs.

No. B-623 Softcover **$17.95**
No. B-622 Hardcover **$29.95**

RADIO COLLECTING BOOKS (cont.)

PHILCO RADIO: 1928-1942. By Ron Ramirez with Michael Prosise. A comprehensive reference book on Philco, the leading radio manufacturer during radio's "Golden Age." Contains a year-by-year look at the Philco radio line with specifications for each model. 200 color photographs, 200 b/w photographs and line drawings. 160 pages. 1.9 lbs.

No. B-644 **$29.95**

RADIO ART. By Robert Hawes. This colorful coffee-table picture-book traces the evolution of the home radio from the 1920's to the 1950's, with particular attention given to the cabinet as an art object. It features colorful, deco, novelty and outrageously styled radio sets from around the world. Although published in Britain, it includes about 40 American radios among the 260 sets pictured in full color. 128 pages, hardcover. 2 lbs.

No. B-614 **$17.95**

HEATH NOSTALGIA. By Terry Perdue, K8TP. Heath Company of Benton Harbor, Michigan was for years the world's largest manufacturer of electronic kits. A former employee details the Heath story, from Ed Heath's first catalog issued in 1925 to the eventual decline of the company and recent departure from the kit business. Includes many pictures and illustrations. 124 pages. .5 lb.

No. B-637 **$ 9.95**

RADIO MANUFACTURERS OF THE 1920'S. By Alan Douglas. This monumental 3 volume work offers an outline history for each of the major radio manufacturers of the 1920's. It features the company principals and their factories, the financial ups and downs of the industry, and hundreds of pictures of radios produced up to 1930. Over 250 pages, each volume. 2 lbs.

Volume 1 — A-C Dayton through J.B. Ferguson	**No. B-385 Softcover**	**$24.95**
Volume 2 — Freed Elsemann through Preiss	**No. B-534 Softcover**	**29.95**
Volume 3 — RCA through Zenith	**No. B-566 Hardcover**	**39.95**
	No. B-567 Softcover	**29.95**

RADIOS OF THE BABY BOOM ERA. From the Howard Sams Photofact series comes a new comprehensive picture reference to radios produced from 1946 to 1960. This 6 volume set is arranged alphabetically by manufacturer, and includes a brief description of each radio, tube complement, tuning range, date, model no., picture and Photofact folder number. Over 300 pages per volume. 1.3 lbs.(each vol.)

Vol. 1	**Admiral to Clearsonic**	**No. B-589**	**$16.95**
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THE PORTABLE RADIO IN AMERICAN LIFE. By Michael Brian Schiffer. This book traces the history of the portable radio from the mid 1890s through the golden age of radio, to the waning days of the transistor revolution of the 1960s. It takes an intriguing look at the interaction of popular culture and politics with the radio manufacturing industry, and contains over 400 photos of historic radios. 260 pages, exceptional quality. 1.2 lbs.

No. B-626 Softcover **$24.95**
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COMMUNICATIONS RECEIVERS, THE VACUUM TUBE ERA (3rd ed.). By Raymond S. Moore. An alphabetical listing of 51 manufacturers and descriptions of over 700 receivers chronicles the early days of the communications receiver. A brief history of each manufacturer is presented, followed by a numerical listing of the models they produced giving year made, original price, bands covered, tube line-up, circuit description and other comments. Over 300 photographs. 1 lb.

No. B-656 **$19.95**

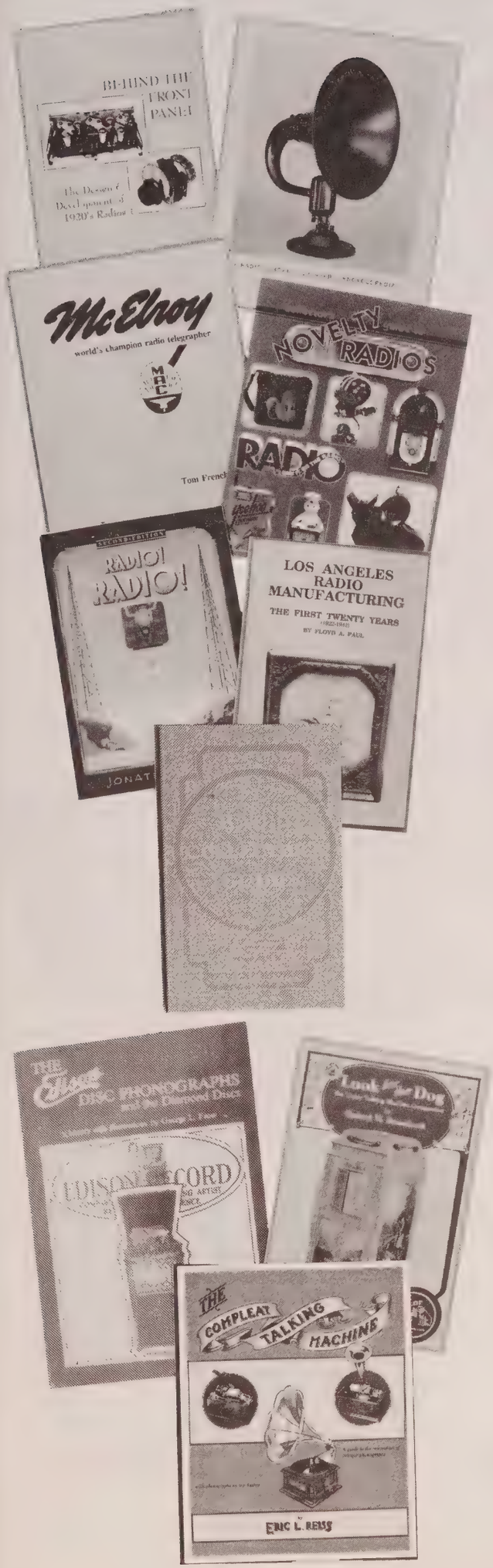
EVOLUTION OF THE RADIO. Edited by Scott Wood. Essentially a picture book, this contains 100 pages of reproduced magazine ads and sales brochures from the 1920s—1950s, as well as over 100 pages of photographs of old radios reproduced in full-color. Over 1000 radios are pictured altogether. A newly revised 1994 price guide is included giving current market values. 216 pages total. 1.1 lbs.

No. B-609 **$22.95**

EVOLUTION OF THE RADIO, VOL. 2. Edited by Scott Wood. Contains over 600 full-color pictures of collectable radios dating from 1924 to 1959, with current prices. 226 pages. 1.2 lbs.

No. B-643 **$24.95**

RADIO COLLECTING BOOKS (cont.)



BEHIND THE FRONT PANEL. By David Rutland. This book traces the design and development of 1920's radio from the advent of the vacuum tube to the first AC set. Detailed explanations are provided for regenerative, neutrodyne, TRF, reflex, superheterodyne, and other circuits. Includes dozens of photos of commonly found 20's vintage radios and parts. 160 pages. .6 lb.

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RADIO HORN SPEAKER ENCYCLOPEDIA. By Floyd A. Paul. A comprehensive listing of every significant horn speaker made in the U.S. for 1920's radios, with background information on 10 major manufacturers. Includes over 120 photos. An excellent identification guide for collectors. 80 pages. 1 lb.

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COLLECTOR'S GUIDE TO NOVELTY RADIOS. By Marty Bunis and Robert Breed. Lists over 600 models of transistor radios depicting media stars, advertising products, cartoon characters, automobiles, food and beverages and just about anything else imaginable. Each model is pictured in color and has a description and current market value. 224 pages.

No. B-671 **$18.95**

RADIO! RADIO!, 2nd ed. By Jonathan Hill. A truly comprehensive book on the history of British radio. Contains 1000 photographs of early equipment and a year-by-year chronology of important events in radio broadcasting and receiver production. 244 pages, hardcover. 2.9 lbs.

No. B-652 **$44.95**

LOS ANGELES RADIO MANUFACTURING, THE FIRST TWENTY YEARS, 1922-1942. By Floyd A. Paul. A history of Los Angeles radio manufacturers and their principals from 1922-1942. Covers Advance Electric Co.; Lee DeForest Mfg Co.; Echophone Radio Co.; Gilfillan Bros., Inc.; Herbert Horn; Jackson-Bell Co., Patterson Radio Co., Pierson-Delane, Inc., Powell Mfg. Co.; Sheldon Radio Co.; and Troy Radio Mfg Co. Well illustrated. 88 pages. .4 lb.

No. B-523 **$10.90**

LOS ANGELES RADIO MANUFACTURING THE FIRST TWENTY YEARS, 1922-1942, supp #1. By Floyd A. Paul. A supplement to Floyd Paul's 1988 book *Los Angeles Radio Manufacturing,* this book expands on the original theme with more information about Jackson-Bell, Herbert Horn and Powell Radio Mfgrs. It includes an extensive listing of the companies, products and people in radio in Los Angeles in 1930-31, as well as a detailed discussion of the "Pee Wee" radio era of 1931-35. 50 pages. .4 lb.

No. B-642 **$ 6.75**

1921–1932 RADIO COLLECTOR'S GUIDE. By Morgan E. McMahon. Lists key information on over 9,000 radio receivers made by some 1,200 companies prior to 1933. Gives manufacturer, year, original price, cabinet type, and technical information. .8 lb.

No. B-306 **$11.95**

PHONOGRAPH BOOKS

THE EDISON DISC PHONOGRAPHS AND THE DIAMOND DISCS. By George Frow. 296 pages describing all models, giving production figures, promotional schemes and extensively describing production processes for making discs. The most complete history of Edison disc phonographs ever published. Hardcover, excellent quality. 2 lbs.

No. B-311 **$29.95**

LOOK FOR THE DOG. By Robert W. Baumback. An illustrated Guide to Victor Talking Machines, 1901 to 1929. 326 pages cover every model of phonograph Victor produced, with illustrations and descriptions. Also contains a section on servicing notes. This is the most complete book on Victor phonographs available anywhere! 1.1 lbs.

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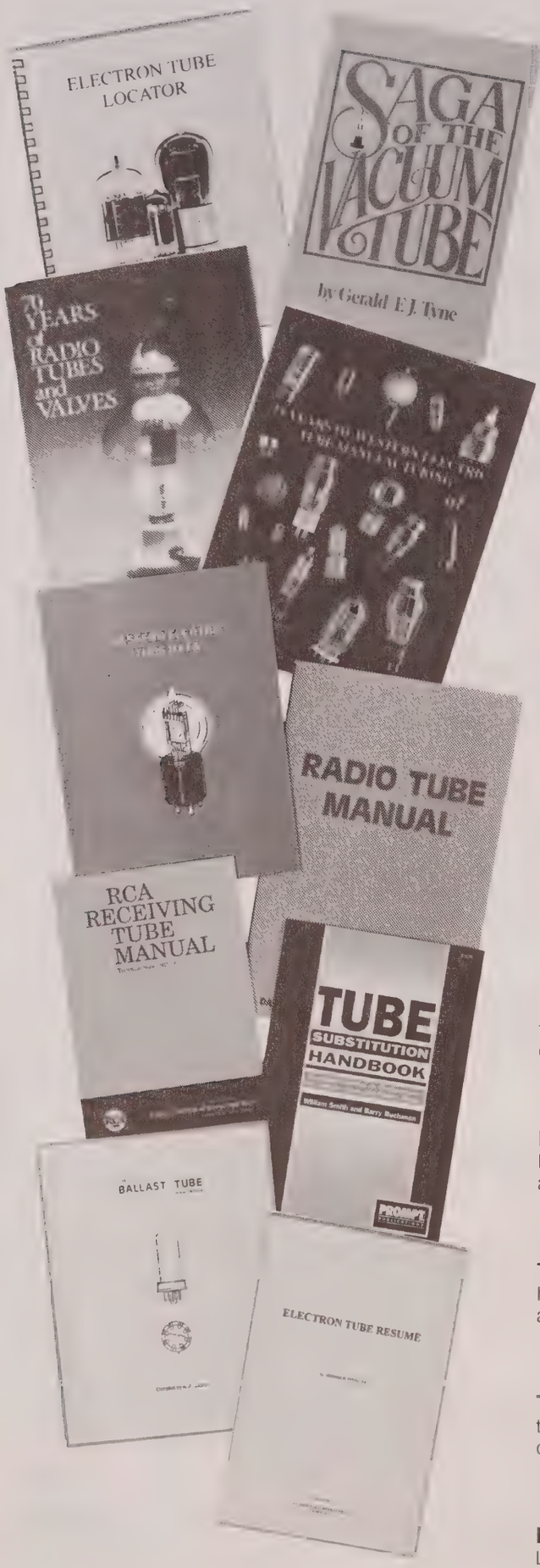
No. B-359 **$19.95**

VACUUM TUBE INFORMATION AND DATA



ELECTRON TUBE LOCATOR. By George H. Fathauer. A comprehensive listing of receiving, transmitting and industrial tube types manufactured in the U.S. and Europe with references to sources of complete data thereon. Includes tube functions, filament/heater characteristics and basing diagrams. This is a preliminary edition listing around 12,000 tube types. Contains over 300 pages of data and diagrams. 1.5 lbs.

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75 YEARS OF WESTERN ELECTRIC TUBE MANUFACTURING. By Bernard Magers. *A Log Book history of over 750 WE tubes including dates of manufacture.* A comprehensive listing of all WE tubes manufactured during their 75 year history. Includes dates of manufacture, description, equipment used in, materials, a summary of tube parameters and manufacture discontinued date. Also covers early history of the Western Electric Co. and their tube activity. Contains hundreds of tube illustrations. Written by a former Western Electric Senior Engineer. 144 pages. 1 lb.

No. B-634 **$16.95**

WESTERN ELECTRIC TUBE DATA, 2nd Ed. Hard-to-find data for 44 Western Electric tube types (205D, 300B, 350B, etc.) popular for audio use and early tube collecting. Includes pictures of tubes and complete operating characteristics and curves. 240 pages. 1.5 lbs.

No. B-659 **$17.50**

DATING THE RCA (CUNNINGHAM) COMPOSITION-BASE TUBES. By Brother Pat Dowd. A comprehensive paper based on RCA engineering bulletins covering the marking details and date coding of the tubes manufactured between 1924 and 1941. .3 lb.

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RADIO TUBE MANUAL. Reprint of early manual giving data and basing diagrams on tubes from 00A through octals and loctals. Includes types BA and BH, Sparton 182B and 183, and 2 pages on early Western Electric types. 35 pages. .3 lb.

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RCA RECEIVING TUBE MANUAL. A high quality reprint of the 1959 RCA Receiving Tube Manual (Technical Series RC-19). Includes receiving and picture tube characteristics, basing diagrams, and outline drawings. 380 pages. 1 lb.

No. B-654 **$10.95**

TUBE SUBSTITUTION HANDBOOK. By William Smith and Barry Buchanan. New comprehensive vacuum tube substitution guide covers early types from 01A to recent types like the KT90. It also includes picture tubes, basing diagrams and an extensive European tube listing. 149 pages. .8 lb.

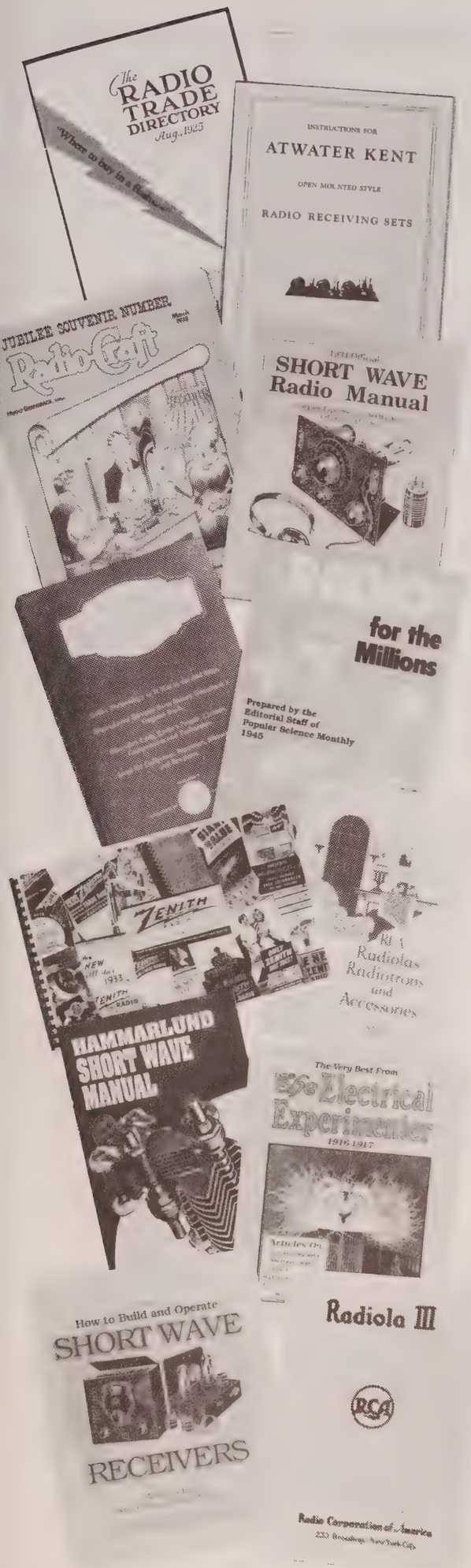
No. B-635 **$16.95**

THE BALLAST TUBE HANDBOOK. By A. P. Jacobi. A comprehensive collection of ballast tube data, newly revised and expanded to include a 53 page section on ballast tube substitutions. Lists over 4000 tube numbers. 120 pages. .9 lb.

No. B-573 **$10.95**

ELECTRON TUBE RESUMÉ. By George H. Fathauer. An abridged version of the "Electron Tube Locator" covering the designation system used by major tube manufacturers in the U.S. and Europe. Includes equivalent tables for U.S. VT types and early Navy types. 30 pages. .3 lb.

No. B-672 **$ 3.00**



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RADIO TRADE DIRECTORY 1925. A high quality reprint listing the names and addresses of thousands of American manufacturers making radios and parts in 1925, and containing over 200 display ads with product illustrations. 190 pages. .8 lb.

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RADIO-CRAFT, 50 YEARS OF RADIO. Edited by Hugo Gernsback. A reprint of Gernsback's 1938 special issue of Radio-Craft magazine which commemorated the first 50 years of radio. Contains the reminiscences of radio pioneers DeForest, Sarnoff, Conrad, Crosley, McMurdo Silver and others, as well as the famous Gernsback predictions for the next 50 years. Also details the progression of the vacuum tube, mileposts in television and famous early radio circuits. 144 pages, hundreds of photos. 1.2 lbs.

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S. GERNSBACK'S 1927 RADIO ENCYCLOPEDIA. This reproduction of Sidney Gernsback's 1927 classic details all that was known about radio in the mid-1920's; the people, the technology, and the equipment. 175 pages. 1 lb.

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RCA RADIOLAS, RADIOTRONS, AND ACCESSORIES. A reprint of 1925 RCA promotional literature. 20 pages of pictures and information on models 30, Super VIII, 28, 26, 25, 20, III, and IIIA receivers and loudspeakers #100, 102, 104 and UZ-1325. .2 lb.

No. B-K-15 **$ 3.50**

RADIO FOR THE MILLIONS. By the editorial staff of *Popular Science Monthly*. Reprint of a 1945 book contains over 78 radio construction projects, and 12 articles on servicing tips. 192 pages, well illustrated. .8 lb.

No. B-402 **$ 8.50**

ZENITH RADIO BROCHURE BOOK. Compiled by A. Jesperson & M. Emery. A nearly complete compilation of Zenith radio information from 1920 to 1946, photocopied from original sales brochures and other advertising. Includes 40 years of Transoceanic multi-band receivers. Hundreds of radios pictured. Over 50 pages, 11" x 17" spiral bound. .8 lb.

No. B-610 **$24.95**

HAMMARLUND SHORT WAVE MANUAL. Quality reprint of the Hammarlund 1937 Short Wave Manual contains instructions for building 12 different, 1, 2 and 3 tube short wave receivers, complete with pictures, schematics and parts lists. 32 pages. .3 lb.

No. B-519 **$ 4.95**

THE VERY BEST FROM THE ELECTRICAL EXPERIMENTER, 1916–1917. This series of construction articles taken from early Gernsback publications includes information on Tesla coils, spark gaps, vacuum tube detectors, batteries, radio, x-ray tubes and more. 105 pages. Well illustrated. .8 lb.

No. B-404 **$ 8.95**

HOW TO BUILD AND OPERATE SHORT WAVE RECEIVERS. A high quality reprint of a 1934 publication by *Short Wave Craft* magazine, containing 30 simple construction projects for short wave reception. 72 pages. Well illustrated. .6 lb.

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RADIOLA INSTRUCTION MANUALS. Reprints of the RCA instruction manuals, covering installation and operation of the Radiola III series units. .2 lb.

Radiola III	**No. B-321**	**$ 2.75**
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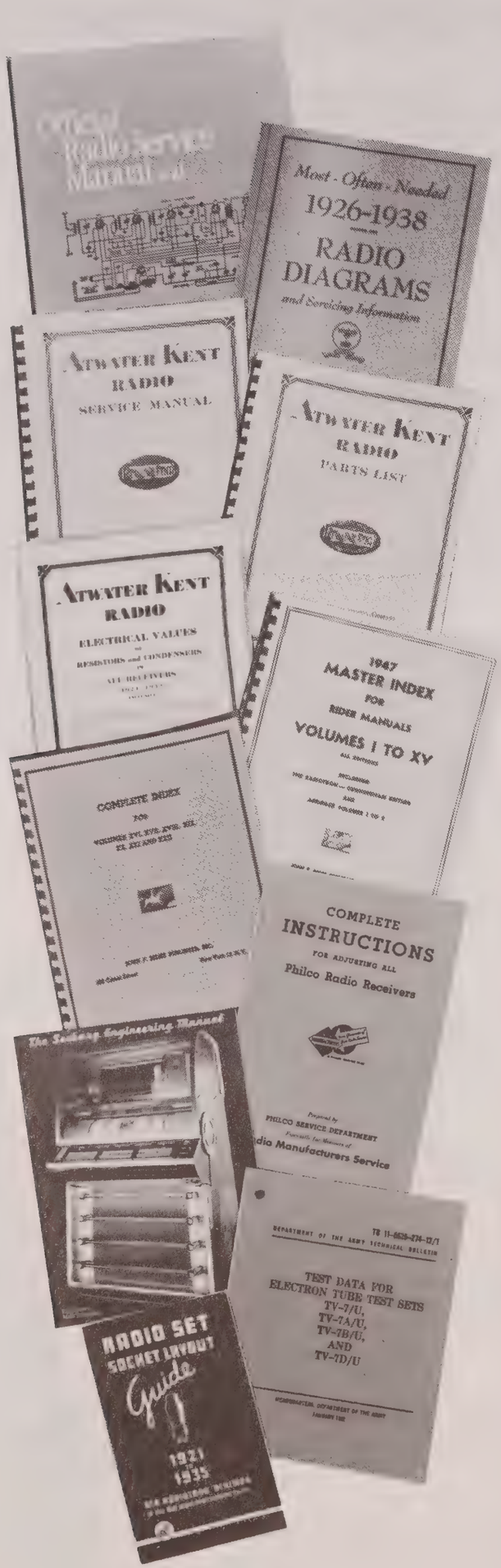

OFFICIAL RADIO SERVICE MANUAL. Edited by Hugo Gernsback. A reprint of Gernsback's famous 1930 radio service manual, covering hundreds of early sets. Contains 70 pages of circuit theory and trouble shooting technique, as well as circuit diagrams on all the common 1920's vintage radios. 356 pages. 2.3 lbs.

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MOST OFTEN NEEDED 1926–1938 DIAGRAMS. A reprint of Morris Beitman's Supreme Publications book, showing circuit diagrams for 600 of the most commonly found radios of that time. A valuable resource for restorations. 240 pages. 1.4 lbs.

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ATWATER KENT RADIO SERVICE MANUAL. A reprint of the 1928 A.K. factory service manual, covering models 10, 10B, 12, 20, 20C, 30, 32, 33, 35, 36, 37, 38, 40, 42, 44, 48, 49, 50 and 52. 98 pages, spiral bound. .8 lb.

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ATWATER KENT RADIO PARTS LIST. A companion book to the 1928 A.K. Service Manual, this reprint shows chassis views and parts identification for all the models listed above. 64 pages, spiral bound..5 lb.

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ATWATER KENT RADIO, ELECTRICAL VALUES OF RESISTORS & CONDENSERS. Reprint of 1932 Atwater Kent special service manual gives values for resistors and condensers used in every receiver up to 1933. This hard-to-find information is normally not given on Riders or original A.K. schematics. Values may be looked up by A.K. part number or radio model number. 24 pages..3 lb.

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1947 MASTER INDEX TO RIDER PERPETUAL TROUBLESHOOTER MANUALS. Covers volumes 1 thru XV. High quality photocopy. 205 pages. 1.1lbs.

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THE SEEBURG ENGINEERING MANUAL. Edited by Mike Zuccaro. A compilation of Seeburg service information on the "Select-O-Matic" mechanism, featuring interviews with George Boesen, designer of the Tormat Selector, and Ed Meixner, Seeburg engineer. 48 pages. .5 lb.

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TEST DATA FOR TV–7/U TUBE TESTER. High quality reprint of the test set-up manual for the military TV–7/U, TV–7A/U, TV–7B/U, and TV–7D/U versions of Hickok tube testers, normally supplied in the lid of the tester. Also contains operating instructions, conversion table for Army VT numbers, and data table for CV type tubes. 83 pages. .4 lb.

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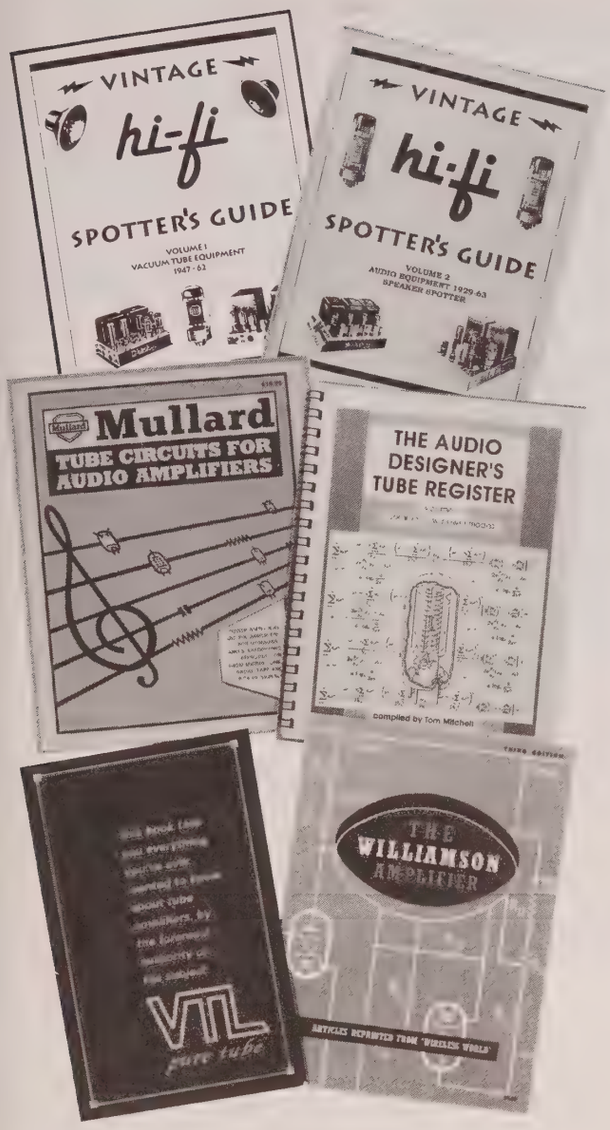
RADIO SET SOCKET LAYOUT GUIDE 1921 TO 1935. This reprint of a 1935 RCA publication shows tube complement, chassis layout and date of manufacture for thousands of radios produced by over 100 different manufacturers. It also contains a tube data chart and base diagrams for RCA receiving tubes. It is very useful for identifying unknown model numbers or determining which tubes belong in a set. 256 pages. .9 lb.

No. B-624 **$ 9.95**



TUBE AUDIO BOOKS

VINTAGE HI-FI SPOTTER'S GUIDE. Compiled by Charles Kittleson. A copy of catalog pages and advertisements of 1950-1962 vintage Hi-Fi components, providing a valuable resource for identification and information. Includes Fisher, Eico, Heathkit, McIntosh, Scott, Harman-Kardon, Marantz, Pilot, Dynaco, Radio Craftsmen and others. 87 pages. .6 lb.

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VINTAGE HI-FI SPOTTER'S GUIDE, VOL. 2. Compiled by Charles Kittleson. Supplement to above book covering 1925-1963 vintage Hi-Fi components. Includes amplifiers, pre-amps, speakers, phonographs, receivers and other equipment not covered in volume 1. 88 pages. .6 lb.

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MULLARD CIRCUITS FOR AUDIO AMPLIFIERS. A reprint of a 1959 publication of Mullard, Ltd., detailing high-quality circuits for audio amplifiers, pre-amplifiers and other stereophonic reproduction equipment. These designs were originated by Mullard engineers at the Mullard Applications Research Laboratory, and originally appeared in various magazine articles with notes on construction and assembly. 136 pages. 1 lb.

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THE AUDIO DESIGNER'S TUBE REGISTER. *Volume 1, Common Low Power Triodes.* By Tom Mitchell. This new reference guide catalogs all the essential parameters of the most popular low power triodes used in audio. The information was compiled and verified in the lab of Tom Mitchell, author of *How to Service Your Own Tube Amp.* 144 pages, spiral bound, illustrated. 1 lb.

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GUITAR AMPLIFIER BOOKS

AMPS! THE OTHER HALF OF ROCK "N" ROLL. By Ritchie Fliegler. The complete story of the guitar amp, includes company histories on Fender, Vox, Ampeg, Marshall, Mesa-Boogie, Hiwatt, Gibson, Orange and others. 120 pages. 1 lb.

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THE TUBE AMP BOOK, 4th Ed. By Aspen Pittman. Newly revised and expanded 4th Edition contains company histories of guitar amp manufacturers. 460 pages of schematics for popular amps, tube data on commonly used audio tubes and 50 pages of "Vintage Fantasy" color pictures of collectible guitars and amps. 765 pages. 2.1 lbs.

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THE HISTORY OF MARSHALL. By Michael Doyle. The definitive account of the guitar manufacturer known as the "sound of rock." Includes complete listings of every product Marshall ever made, over 100 schematics, the history of the Celestion speaker and early catalog reprints. Hundreds of photographs, including 64 color plates. 254 pages. 2.1 lbs.

No. B-661 **$32.95**

A DESKTOP REFERENCE OF HIP VINTAGE GUITAR AMPS. By Gerald Weber. Gerald Weber, owner of Kendrick Amplifiers, answers common questions about vintage guitar amplifiers on topics ranging from biasing for output tubes to easy modifications. He includes an in-depth analysis of Fender classics such as the Tweed Champ, Tweed Deluxe, 4x10 Bassman, Delux Reverb, Super Reverb and Vibroverb. Also included are over 200 pages of schematics for Ampeg, Fender, Gibson, Hiwatt, Magnatone, Marshall, Rickenbacker, Silvertone and Vox amps. 500 pages. 1.5 lbs.

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OLD TIME RADIOS! RESTORATION AND REPAIR. By Joseph J. Carr. A well-written book on the history, theory and practical operation of old-time radio sets, with detailed instructions on how to repair them. Included is information on how vacuum tubes work, radio troubleshooting, alignment, test equipment, and repairing water damage. 256 pages. 1 lb.

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FIXING UP NICE OLD RADIOS! By Ed Romney. Easy to understand guide to antique radio repair covers everything from crystal sets to the Scott 800B! Uses photos of the insides of popular collectable sets to cover actual repair jobs in detail. Includes AK, Zenith, Bosch, Scott, National, Hallicrafters, Crosley 50, Radiola III, 17, 25, R-28, Philco and others. Explains Wunderlich, AVC, crystal filters, Scott and Zenith push-buttons and band-switches, alignment and more. 170 pages, 8 1/2" x 11" spiral bound. 1.2 lbs.

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ANTIQUE RADIO RESTORATION GUIDE, 2nd edition. By David Johnson. Teaches basic technique for troubleshooting and repairing old radios, refinishing cabinets, and following necessary safety precautions. Also contains useful information such as sources for parts, schematics, a glossary of terms and more. 160 pages, well illustrated. 1 lb.

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THE CRYSTAL SET HANDBOOK. By Philip N. Anderson. A practical "how-to" book of crystal radio construction. Contains a simple oat box project, formulas for coil inductance and coil Q, a procedure for measuring coil capacitance and theory for i.c. circuit matching. 130 pages. .5 lb.

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RADIOS THAT WORK FOR FREE. By K.E. Edwards. An experimenter's handbook on crystal radios, this book includes instructions and theory for building many different crystal radio circuits. 140 pages. .5 lb.

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ALL ABOUT CRYSTAL SETS. By Charles Green. This book tells you about crystal sets and shows you how to build them. Complete plans are included for constructing seven different types of receivers. Instructions are also included for making a book tuning capacitor and a rotary switch. .5 lb.

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OSCILLOSCOPES, SELECTING AND RESTORING A CLASSIC. By Stan Griffiths. The complete book of Tektronix oscilloscopes from 1950 through the early 1970s. Contains pictures and detailed descriptions of every model in the Tektronix line, along with information and tips on restoring these classics. 372 pages. 1 lb.

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SHORTWAVE LISTENING GUIDEBOOK. By Harry L. Helms. A fun and informative introduction to shortwave radio. Covers how to select and operate a shortwave receiver, reception conditions and antennas, profiles of major international broadcasting stations, what can be found on the various brands, clandestine broadcasters and more. 1.1 lbs.

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THE WEEKEND REFINISHER. By Bruce Johnson. Easy-to-follow guide teaches the basics of wood repair and finish restoration. Learn how to repair scratches, veneer chips, fill small holes, raise dents, remove water damage, identify and revive various finishes and more. 295 pages. 1 lb.

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AUDIO ANTHOLOGY. Edited by C.G. McProud. This reprint series consists of construction and informational articles which originally appeared in *Audio Engineering* magazine in the late 40's and early 50's. They feature amplifiers, tuners, phono equalizers, noise suppressors, phonographs, tape recording, speaker enclosures and more. Over 120 pages, each volume. .9 lb.(each vol.)

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No. B-601 Vol. 4 (1955-1957) 16.95
No. B-636 Vol. 5 (1957-1959) 16.95

Complete set of 5 volumes $76.28

VIDEO CASSETTES

VINTAGE HI-FI, THE GOLDEN ERA 1947-1965. Compiled by Charles Kittleson. The Golden Era of Hi Fidelity in the United States is captured in pictures as narrator Charles Kittleson shows examples of McIntosh, Marantz, Scott, Altec, Dyna, Fisher, Radiocraftsmen and other classic components from the fifties and sixties. 30 minutes, VHS cassette. 1 lb.

No. BV-647 **$29.95**

SEEBURG JUKEBOX RESTORATION VIDEO. By Mike Zuccaro. Jukebox collector/restorer Mike Zuccaro demonstrates several collectible jukeboxes and conducts a detailed restoration clinic on the Seeburg Select-O-Matic 100 mechanism. Professionally produced. 95 minutes, VHS cassette. 1 lb.

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TROUBLESHOOTING THE SEEBURG TORMAT SELECTION SYSTEM, 1955-1965. By Mike Zuccaro. A nuts and bolts guide to restoring Seeburg jukeboxes of the 1950's and 1960's, with detailed analysis of the Tormat selection systems. 45 minutes, VHS cassette. 1 lb.

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RADIO COLLECTOR. "Radio Collector" originally aired on PBS television as a 5-part series and was nominated for an Emmy, best informational series. The 130 minute program covers radio history, collecting and restoration techniques. It includes pictures of many collectible radios, as well as interviews with several well-known California collectors. 130 minutes, VHS cassette. 1 lb.

No. BV-556 **$29.95**

PHILCO. The story of how Philco began making radios in the late 1920s and became the largest radio manufacturer in the U.S. through the 1930s. Includes a tour of the Philco factory filmed in 1929, showing how a radio goes through production, step-by-step. 28 minutes, VHS cassette. 1 lb.

No. BV-613 **$19.95**

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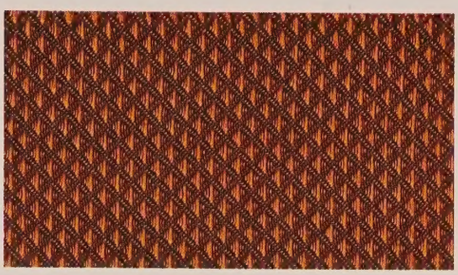

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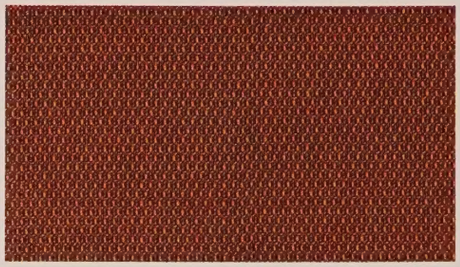

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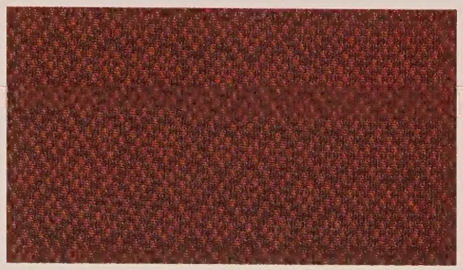

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